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MODEL AERODYNAMIC TEST RESULTS FOR TWO VARIABLE CYCLE ENGINE COANNULAR EXHAUST SYSTEMS AT SIMULATED TAKEOFF AND CRUISE CONDITIONS

COMPREHENSIVE DATA REPORT VOLUME III GRAPHICAL DATA BOOK 1

By D.P. Nelson

Commercial Products Division Pratt & Whitney Aircraft Group United Technologies Corporation

(NASA-CR-159819-VOL-3-BR-1) MODEL AERODYNAMIC TEST RESULTS FOR TWO VARIABLE CYCLE ENGINE COANNULAR EXHAUST SYSTEMS AT SIMULATED TAKEOFF AND CRUISE CONDITIONS. COMPREHENSIVE (Pratt and whitney Aircraft

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Prepared for
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
Lewis Research Center
Under
Contract NAS3-20061

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15 Supplementary Notes		<u></u>				
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Project Manager: A. G. Po	Project Manager: A. G. Powers, NASA Lewis Research Center					
16 Abstract						
advanced coannular exhaust nozzle for a future supersonic propulsion system. Tests were conducted with two test configurations: 1) a short flap mechanism for fan stream control with an isentropic contoured flow splitter, and 2) an iris fan nozzle with a conical flow splitter. Both designs feature a translating primary plug and an auxiliary inlet ejector. Tests were conducted at takeoff and simulated cruise conditions. Data were acquired at Mach numbers of 0, 0.36, 0.9, and 2.0 for a wide range of nozzle operating conditions. At simulated supersonic cruise, both configurations demonstrated good performance, comparable to levels assumed in earlier advanced supersonic propulsion studies. However, at subsonic cruise, both configurations exhibited performance that was 6 to 7.5 percent less than the study assumptions. At take-off conditions, the iris configuration performance approached the assumed levels, while the short flap design was 4 to 6 percent less.						
17 Key Words (Suggested by A hor(st) Short Fiap Ejector Iris Flap Ejector Coannular Exhaust Nozzle	18 C.strib	ution Statement	(
Inverted Velocity Profile						
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FOREWORD

This report documents the work performed during the Nozzle Performance Tests (Task III) of Contract NAS3-20061. Because of the large amount of information, this report is presented in three Volumes to facilitate its use.

Volume I contains the design layouts and detailed design drawings of the nozzle models.

Volume II contains the tabular aerodynamic data generated in this program.

Volume III contains a graphical presentation of the data.

A complete description of the test hardware and test facilities is contained in the companion Task III Final Report, CR-159818. Significant test results and conclusions are also included in the Final Report.

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INTRODUCTION

This volume contains a graphical presentation of the aerodynamic data acquired during the scale model nozzle performance wind tunnel test.

Section 2 contains an organization guide that can be used to locate the data plots obtained during this program.

Section 3 contains the graphical data and includes plots of:

- Nozzle thrust coefficient parameters
- Nozzle discharge coefficients Static pressure distributions 0
- 0

2. Graphical Data Guide

The graphical data have been organized by test configuration for ease of comparison. The data are presented in the same configuration order as listed in the data matrix guide, Table 2-I Volume II. For each configuration, the data are organized by ascending run number.

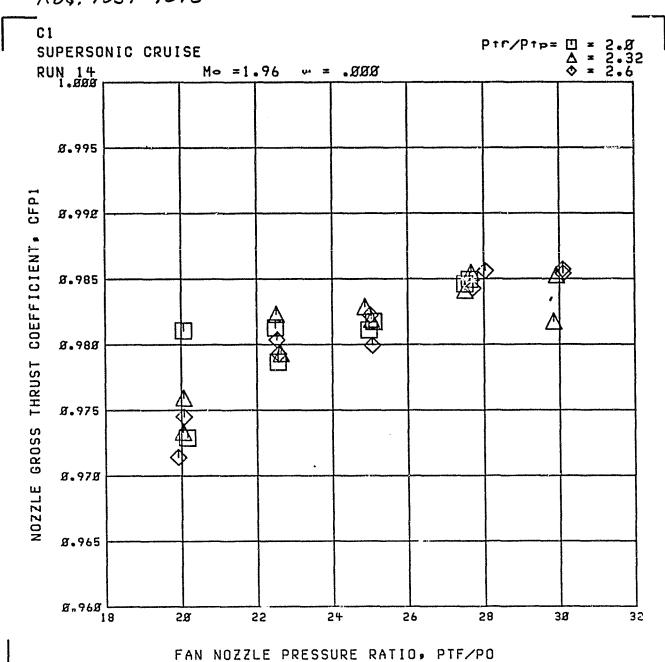
The graphical data presented consist of plots of nozzle gross thrust coefficient (CFP1), fan nozzle discharge coefficient (CDF) and primary nozzle discharge coefficient (CDP). Normalized model component static pressure distributions are presented as a function of primary total pressure (P1/Ptp), fan total pressure (P1/Ptf) and ambient static pressure (P1/Po) for selected operating conditions. In addition, the supersonic cruise configuration data include plots of nozzle efficiency (ETA1 INT) and secondary-to-fan total pressure pumping characteristic (PTS/PTF).

For each run the nozzle performance parameter plots are presented first, followed by the static pressure distribution plots. Each performance plot is identified in the upper left corner of the page by reading (RDG) number sequence, configuration and run (RUN) number. Wind tunnel and nozzle operating conditions are also defined at the top of the page. Each static pressure distribution plot is identified by run (RUN) number and reading (RDG) number in the upper right corner of the page, followed by a heading that identifies the configuration, model component for which the distribution was measured. The second line of the heading defines the wind tunnel and nozzle operating conditions associated with the reading number.

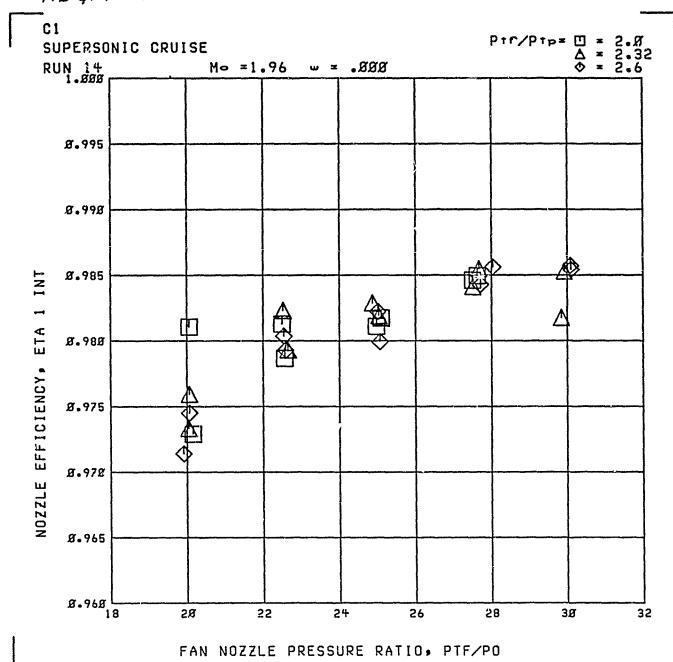
3. GRAPHICAL DATA

CONFIGURATION C₁
SHORT FLAP NOZZLE
SUPERSONIC CRUISE

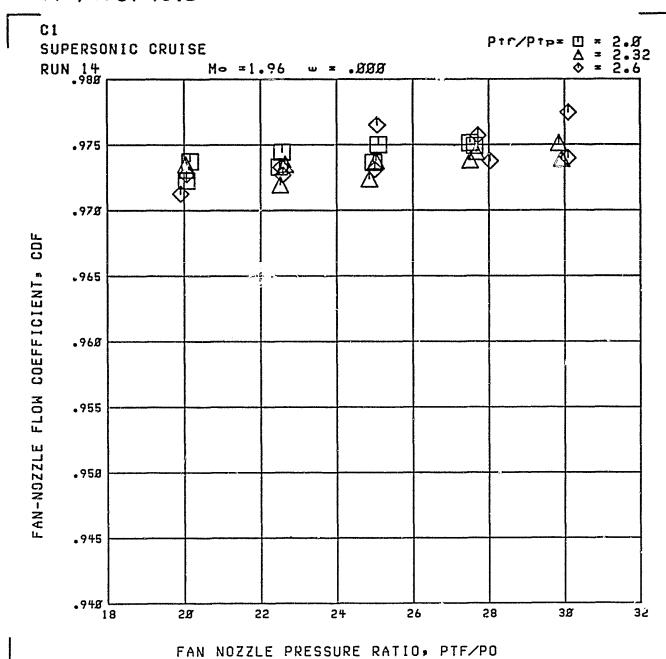
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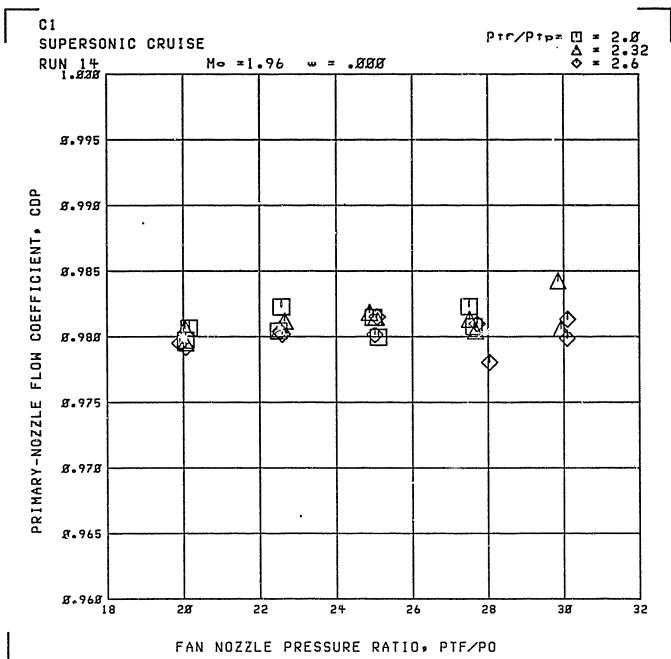
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RPG 1039-1070



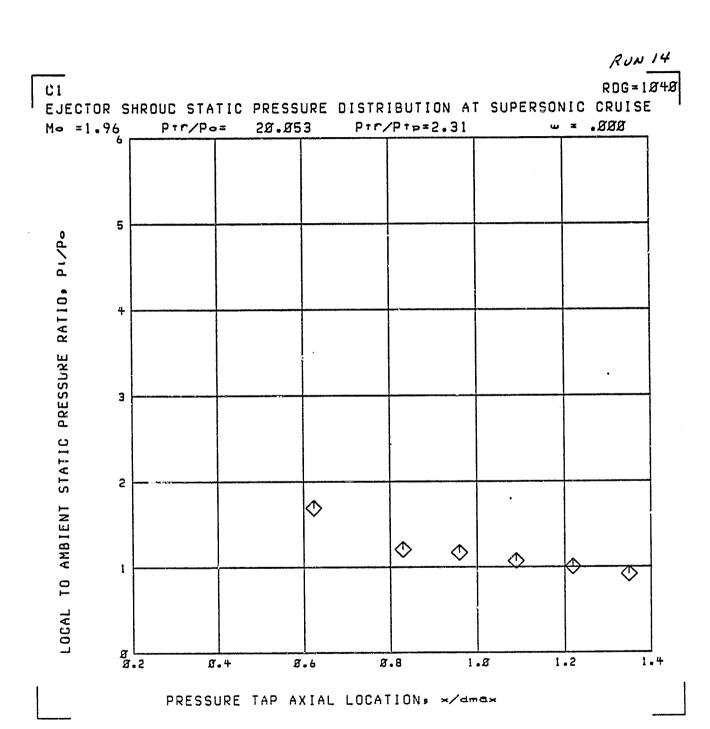
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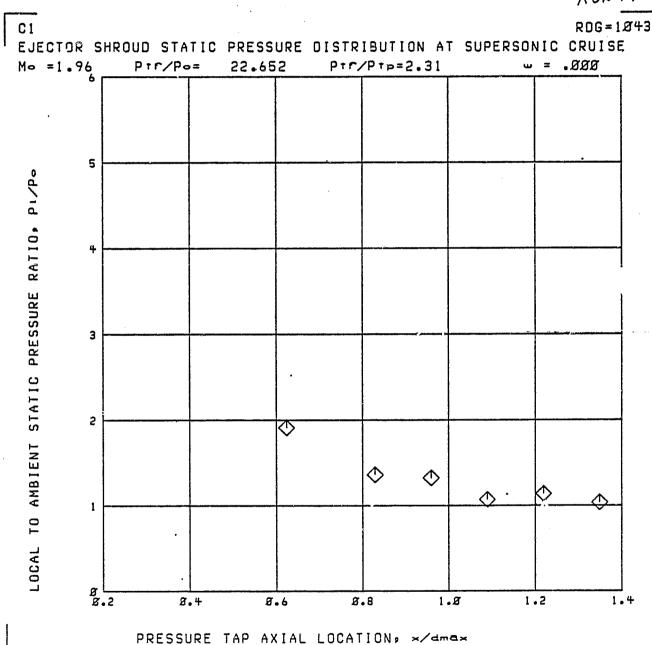
ROG. 1039-1070 CI SUPERSONIC CRUISE RUN 14 Mo =1.96 w = .888 RATIO, PTS/PTF **.**855 .858 SECONDARY TO FAN TOTAL-PRESSURE .845 図 EN .848 **.**Ø35 .øsø .Ø25 .Ø2Ø └ 8 I 28 55 24 26 28 ЗØ 32

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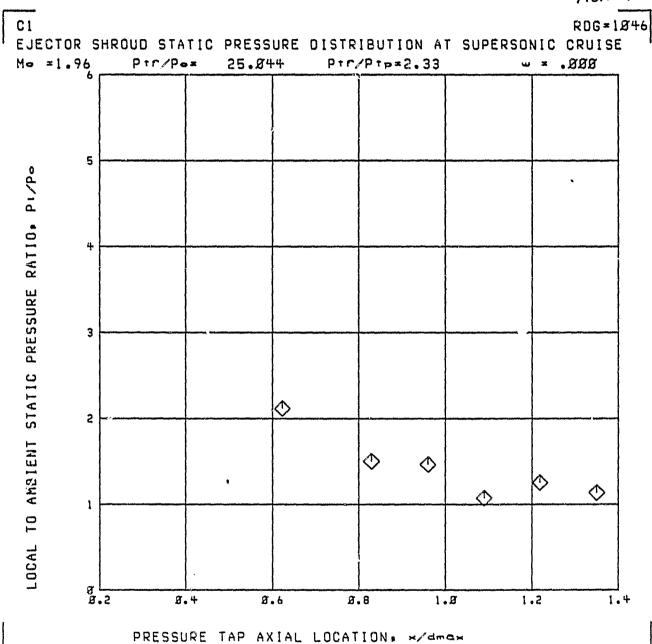
FAN NOZZLE PRESSURE RATIO, PTF/PO

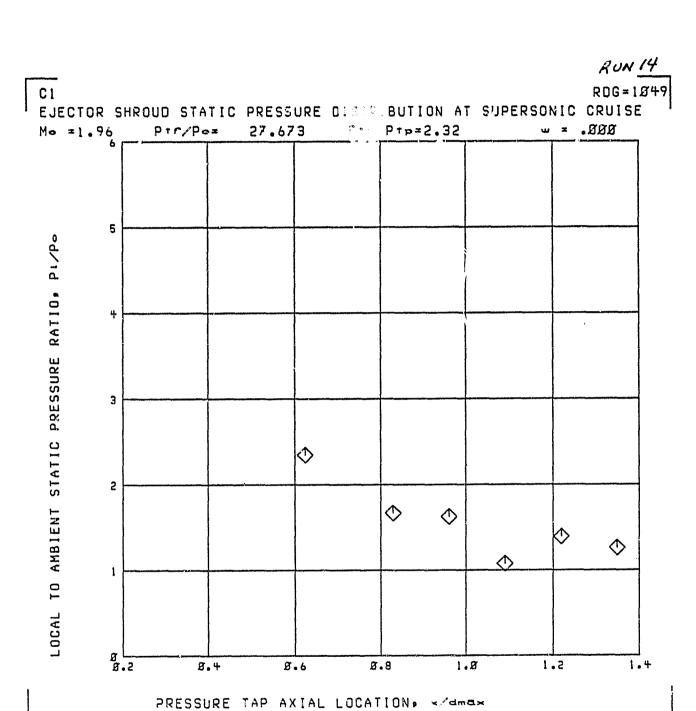


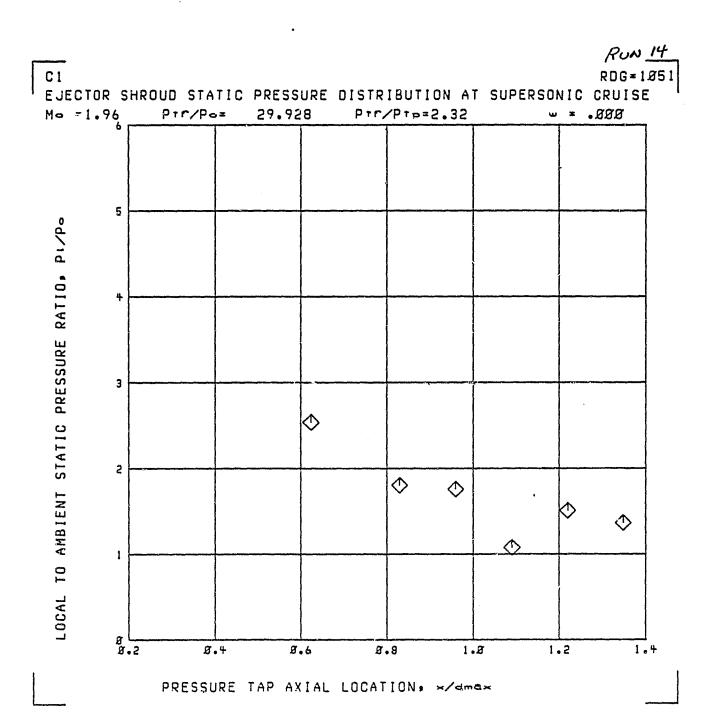


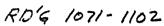


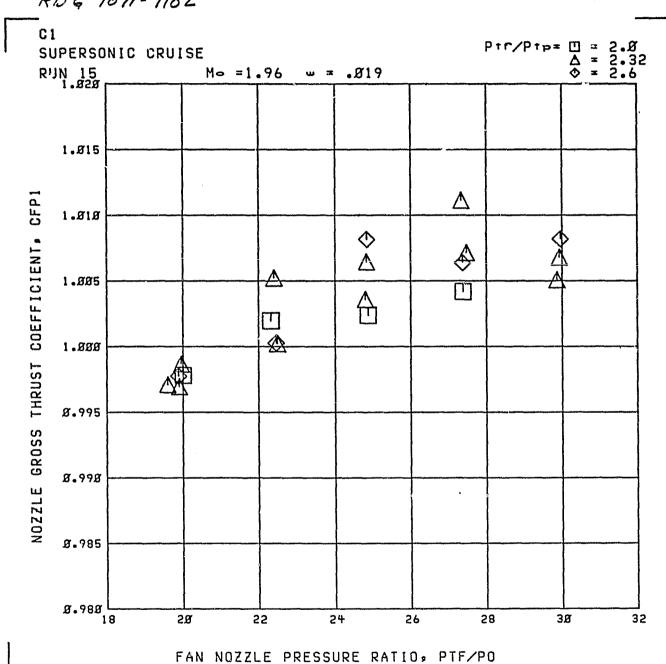




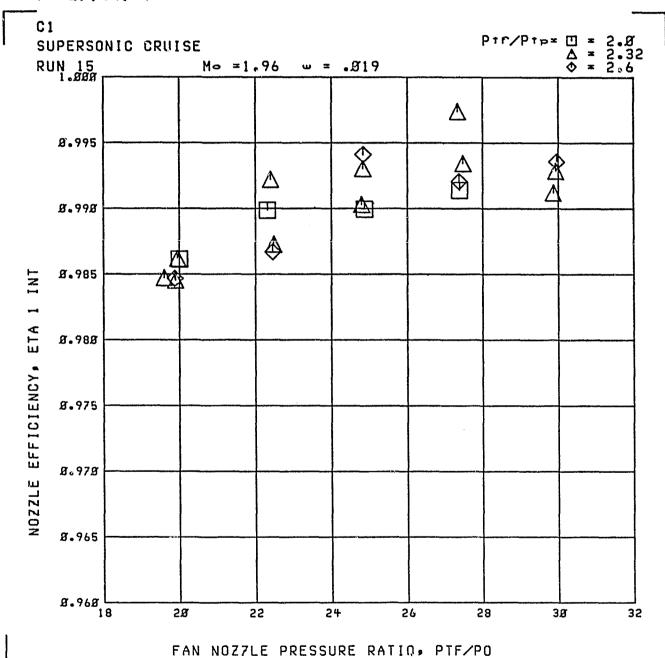




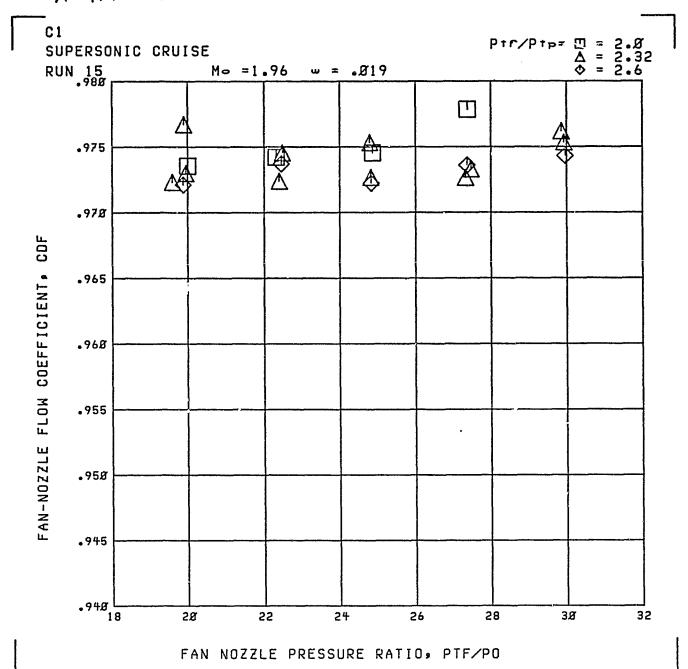




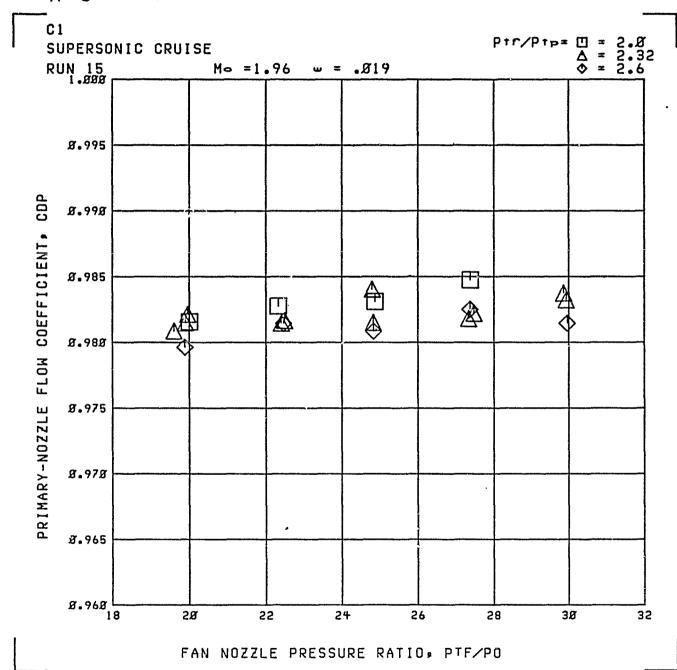




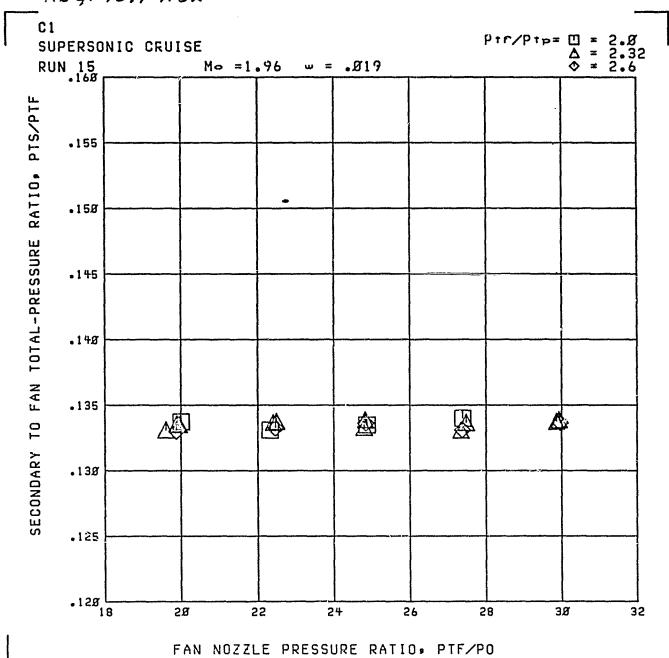
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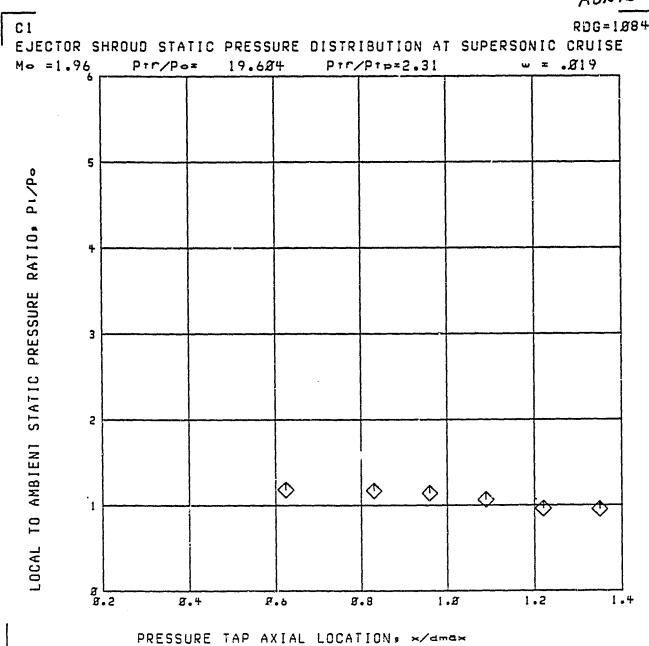
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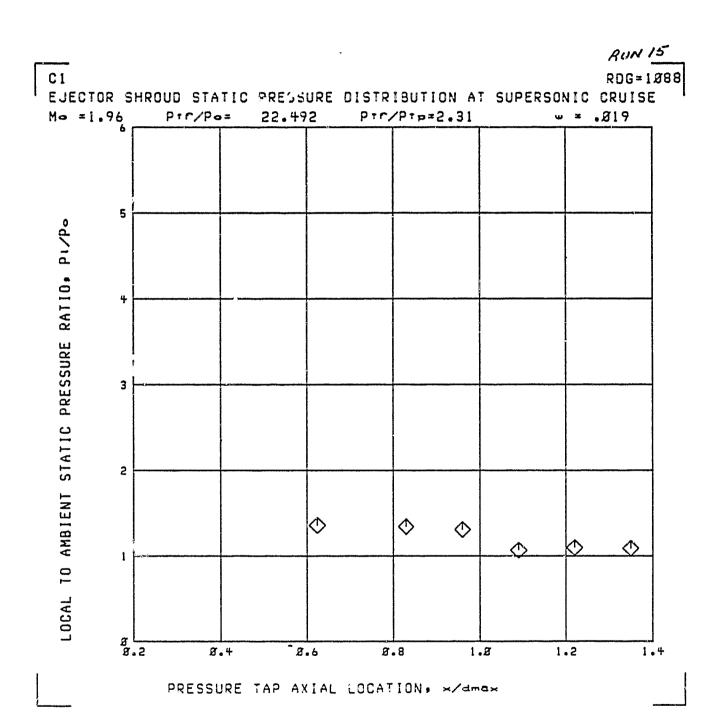


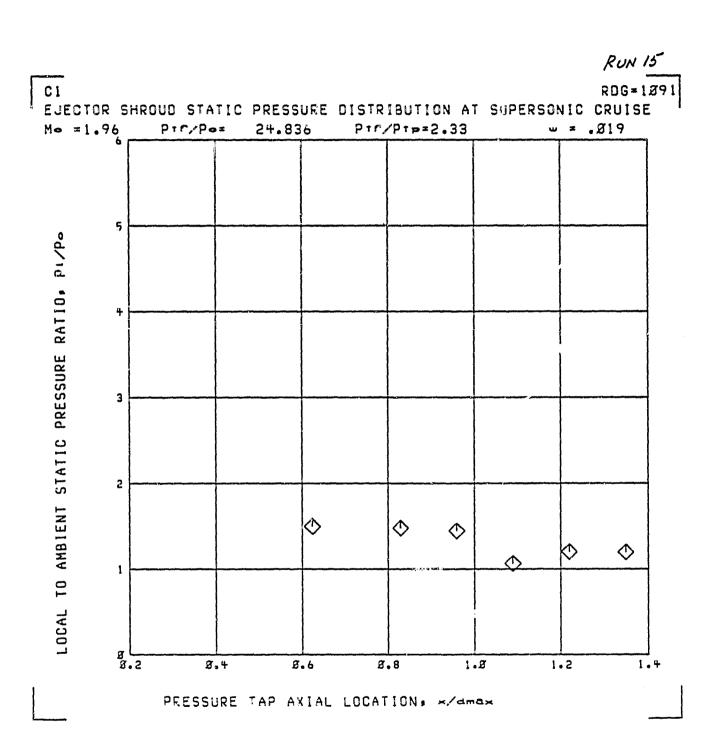
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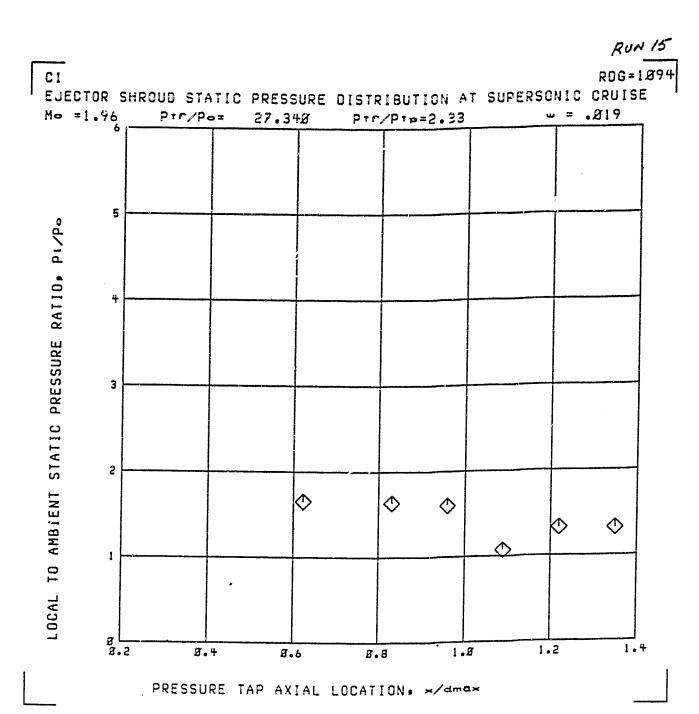


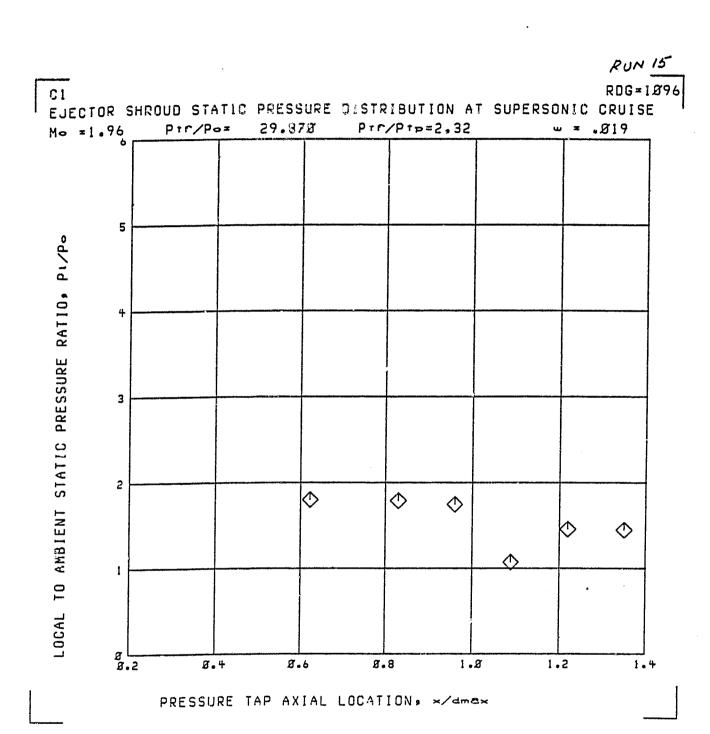




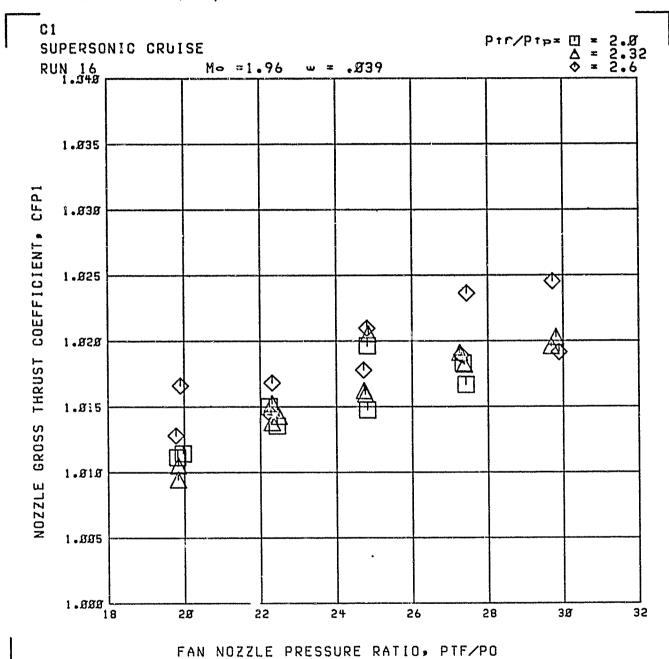




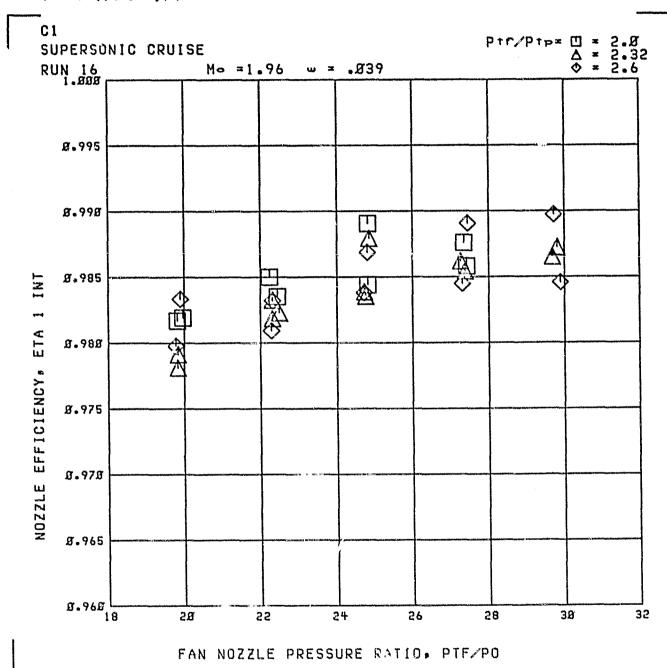




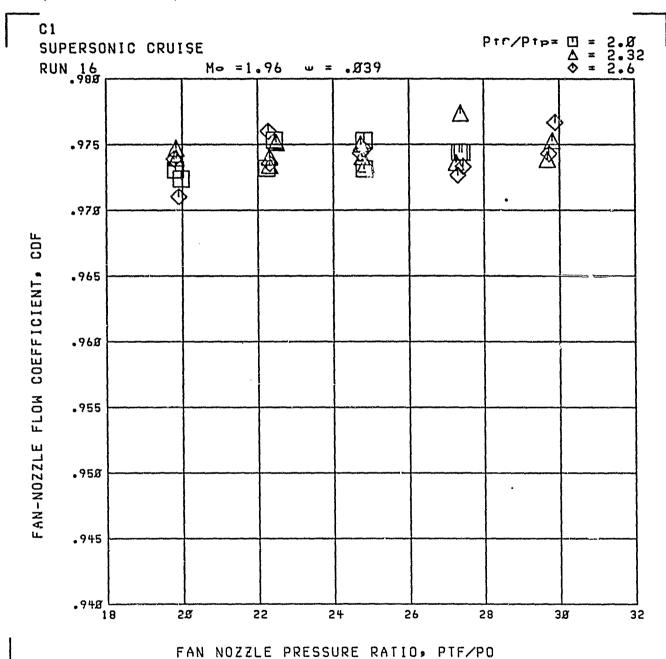
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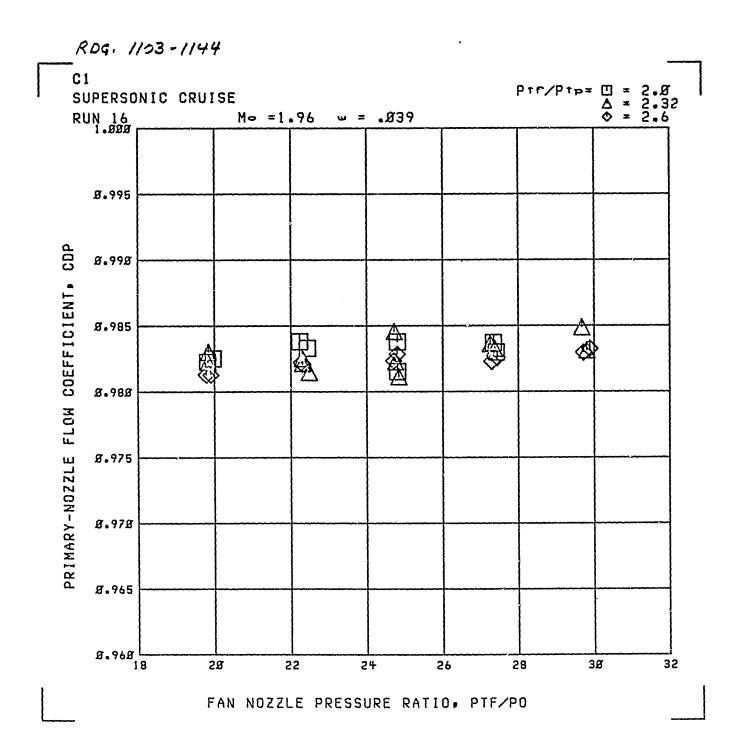


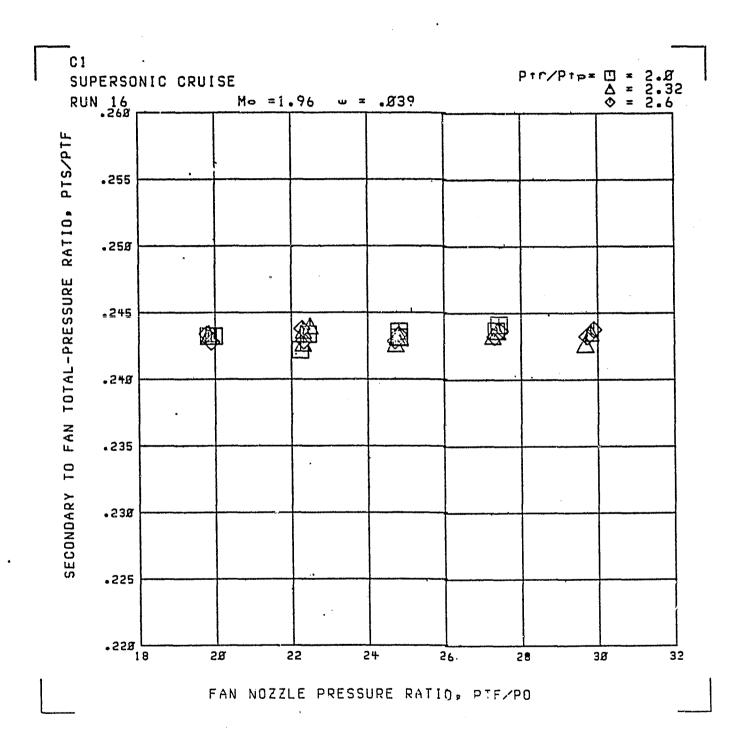
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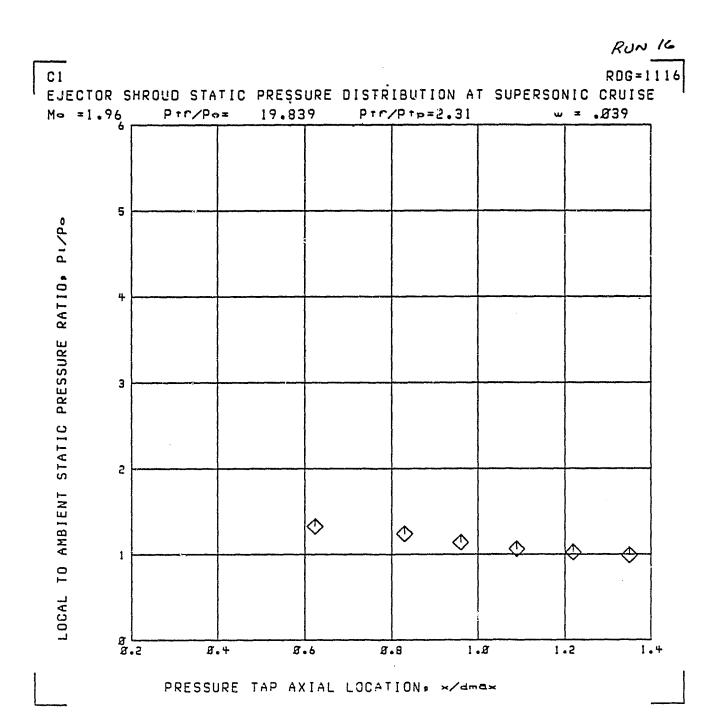


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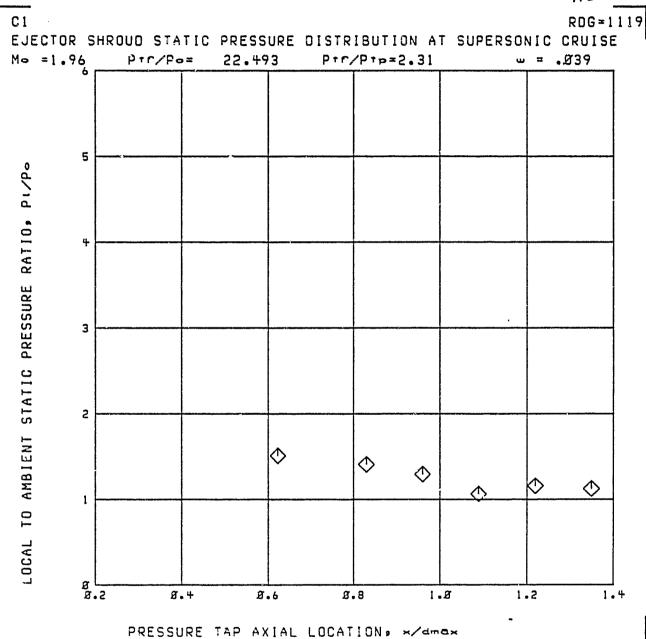


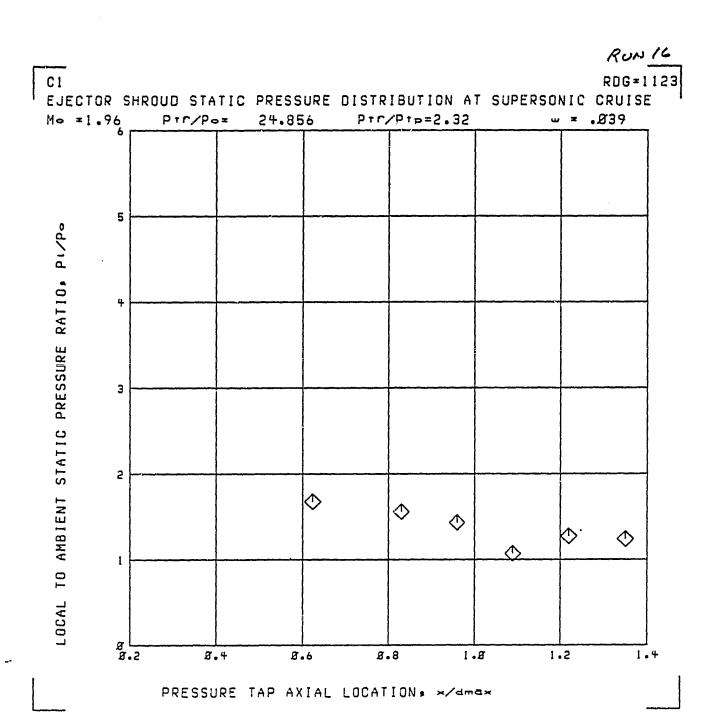


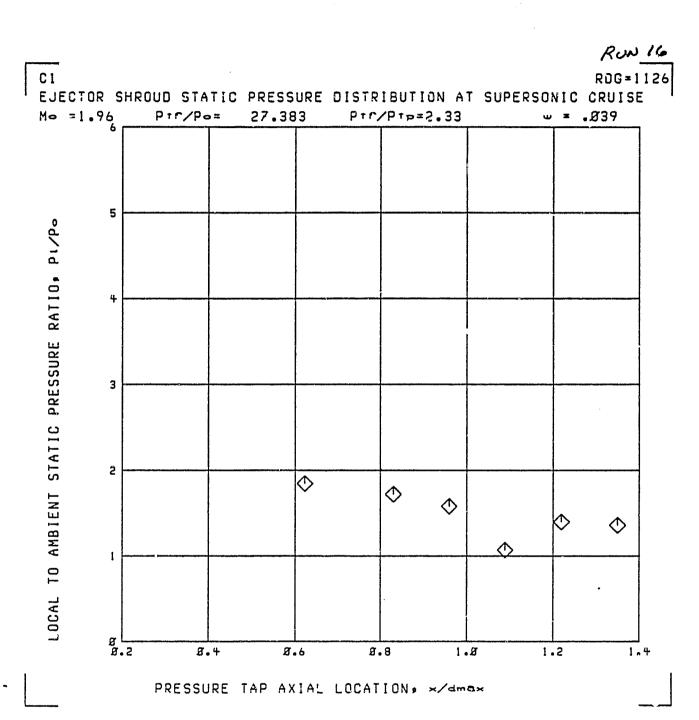




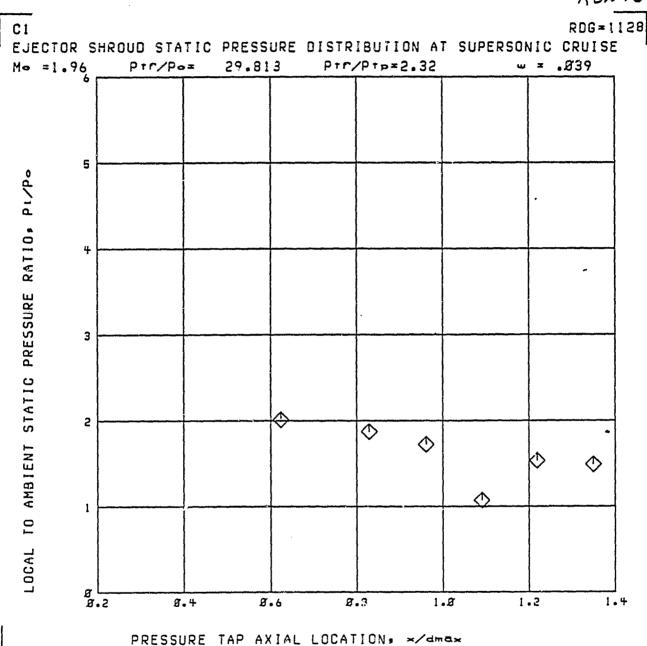






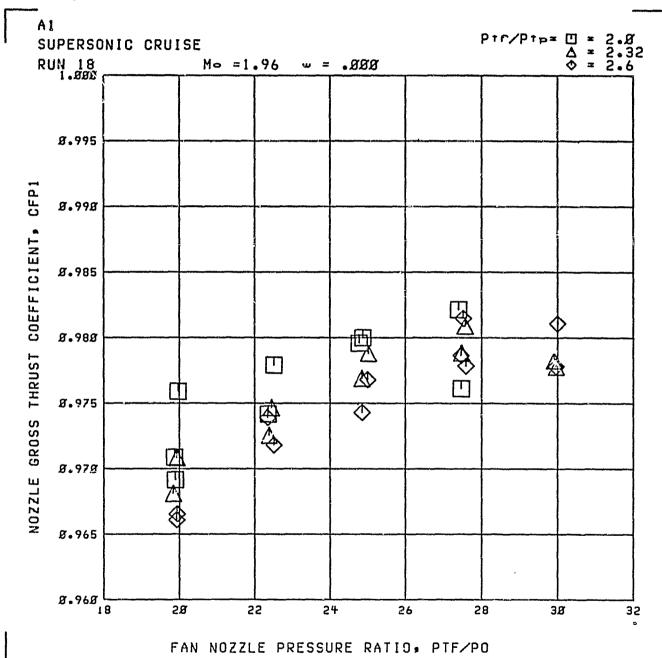




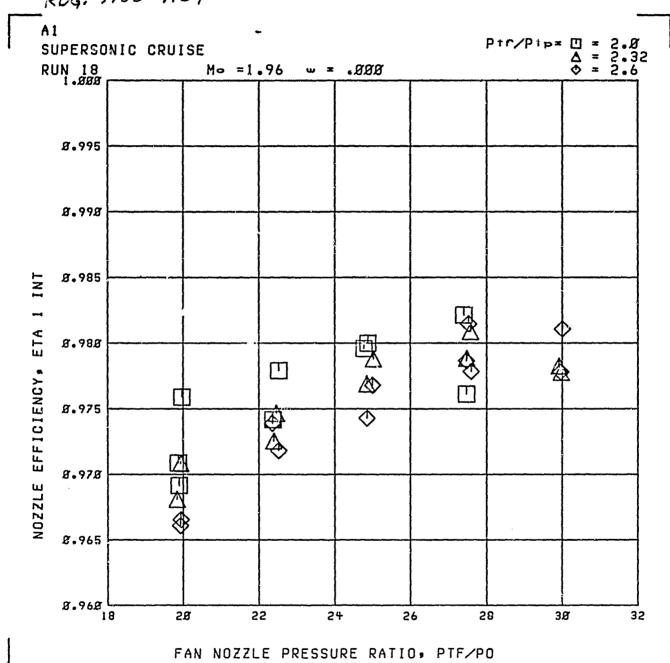


CONFIGURATION A₁
IRIS FLAP NOZZLE
SUPERSONIC CRUISE

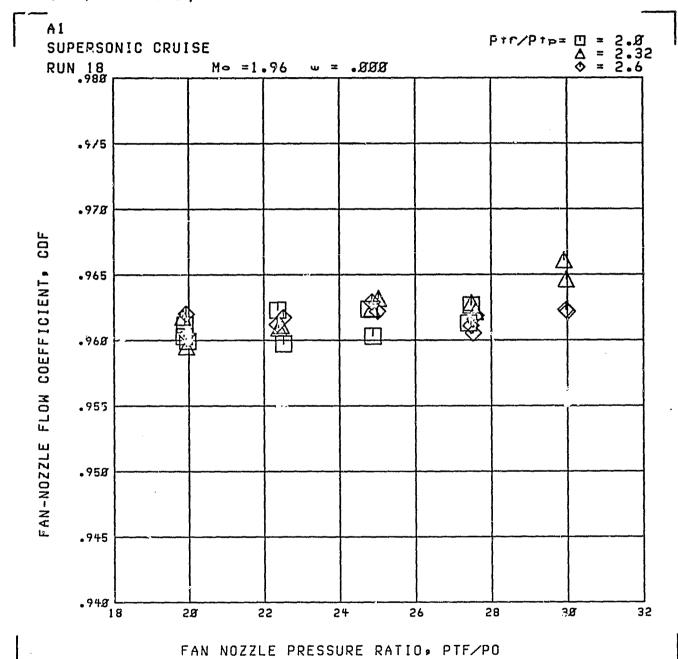
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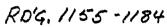


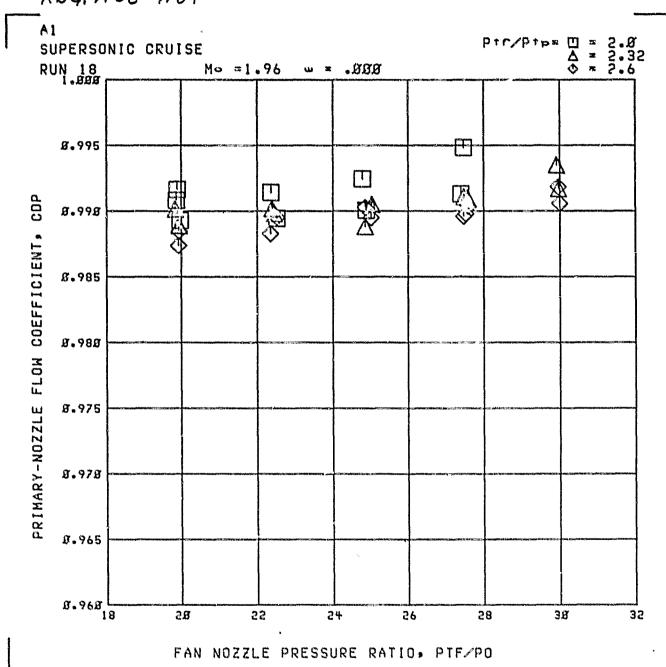
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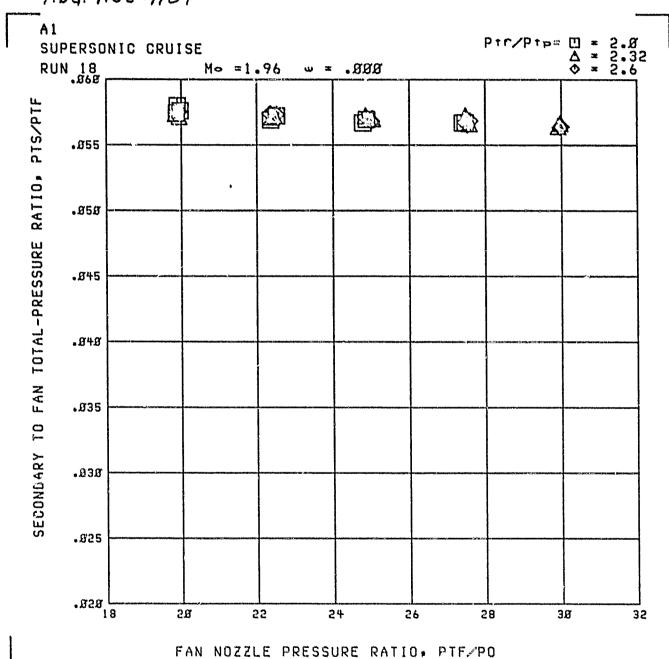
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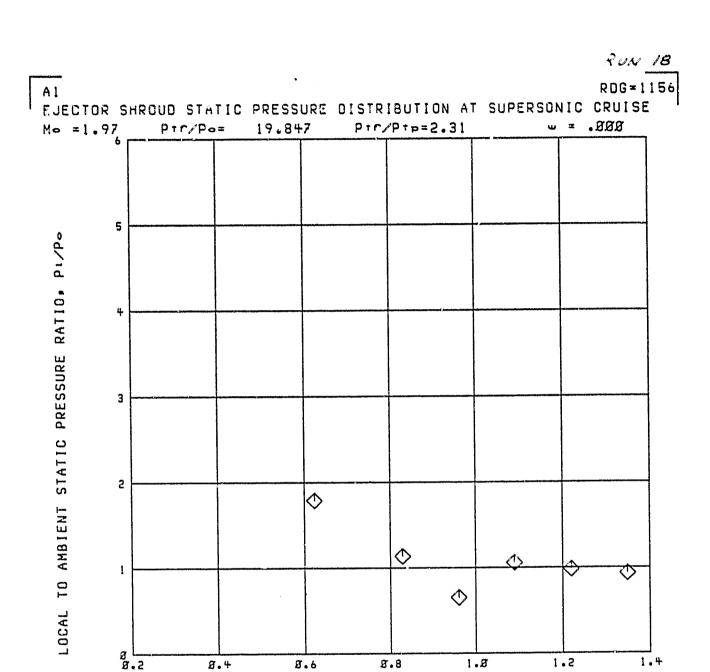






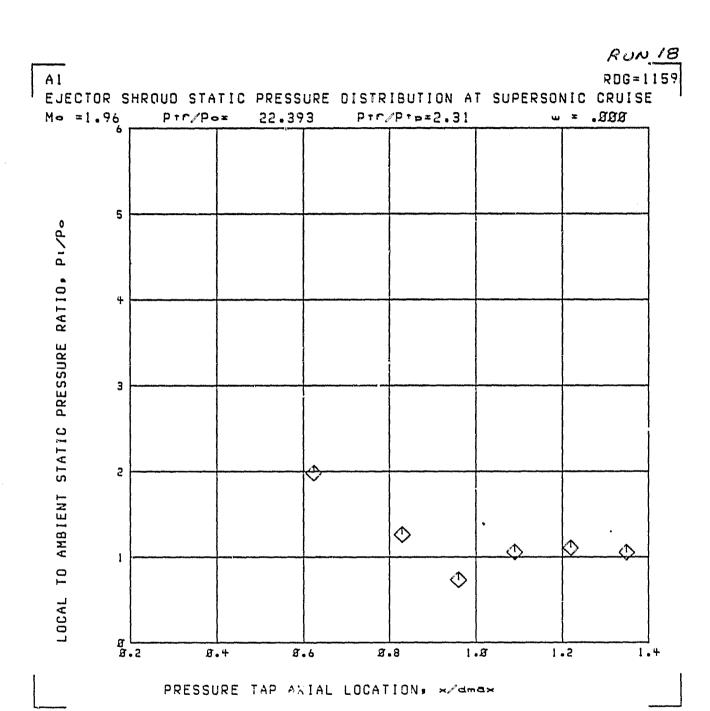
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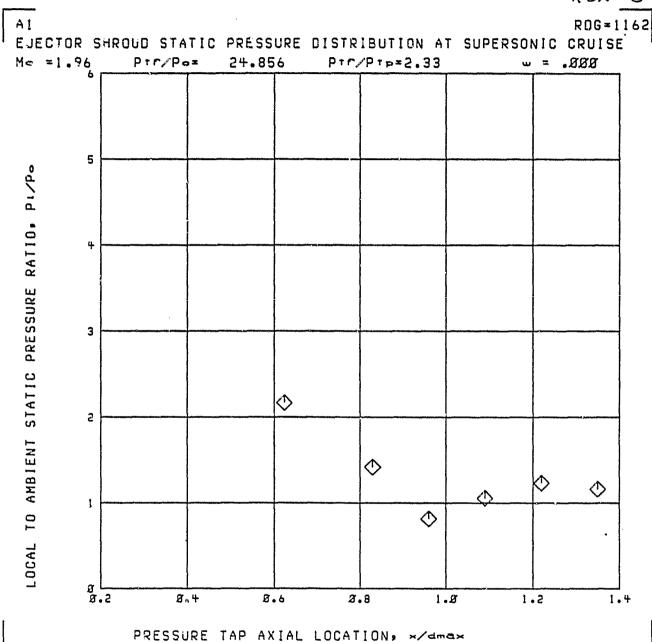


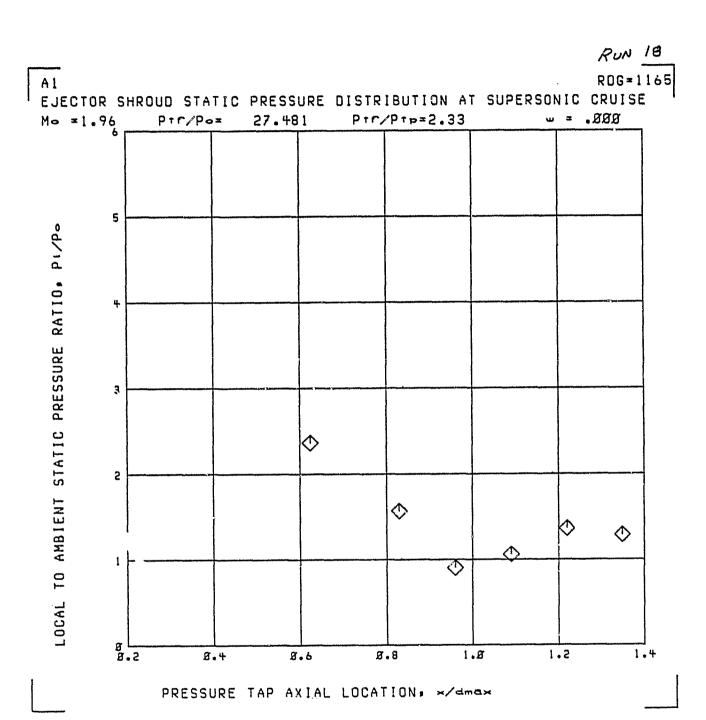
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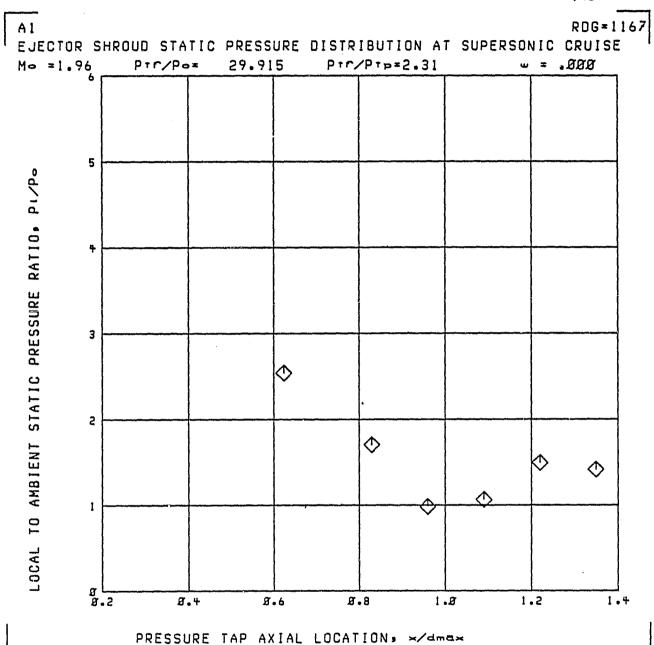




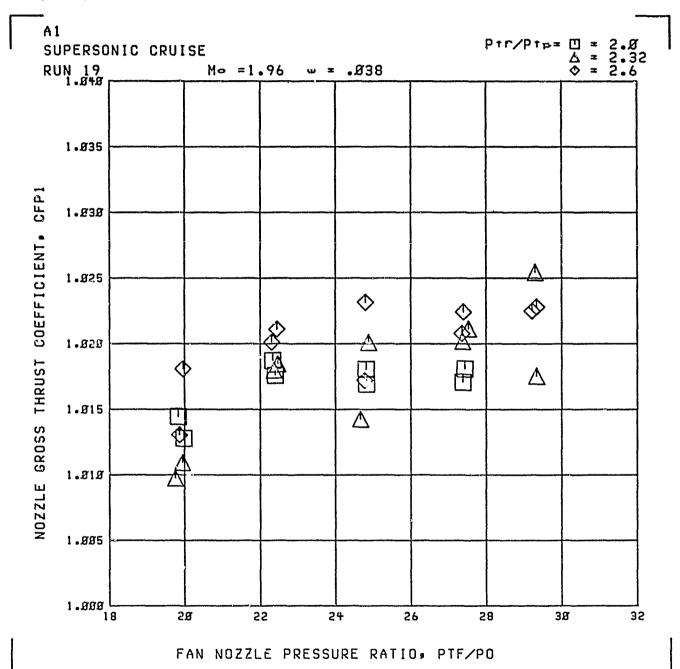




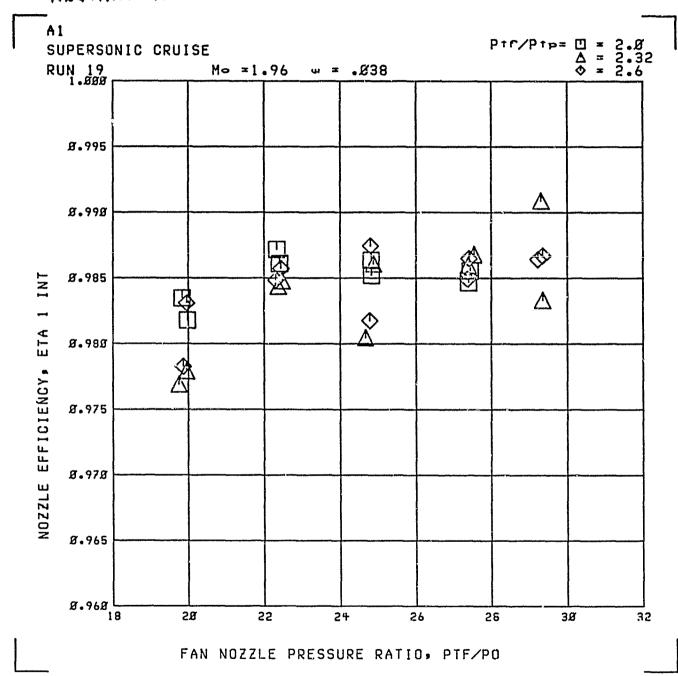
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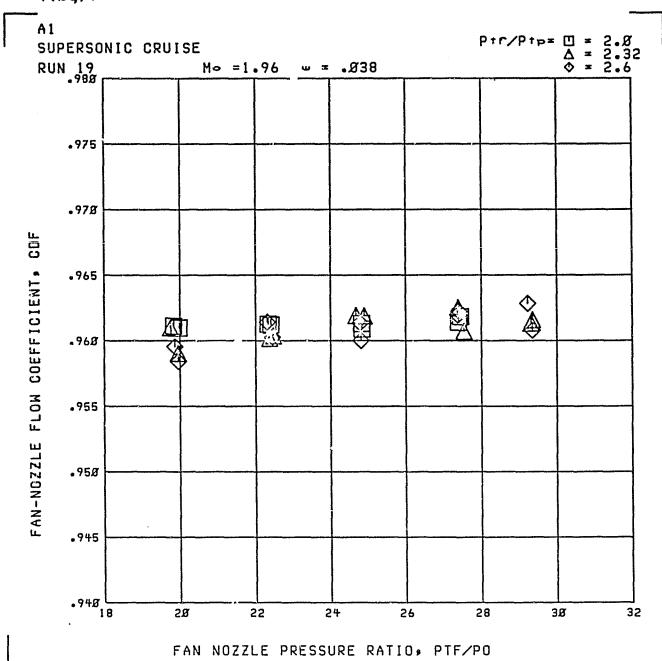
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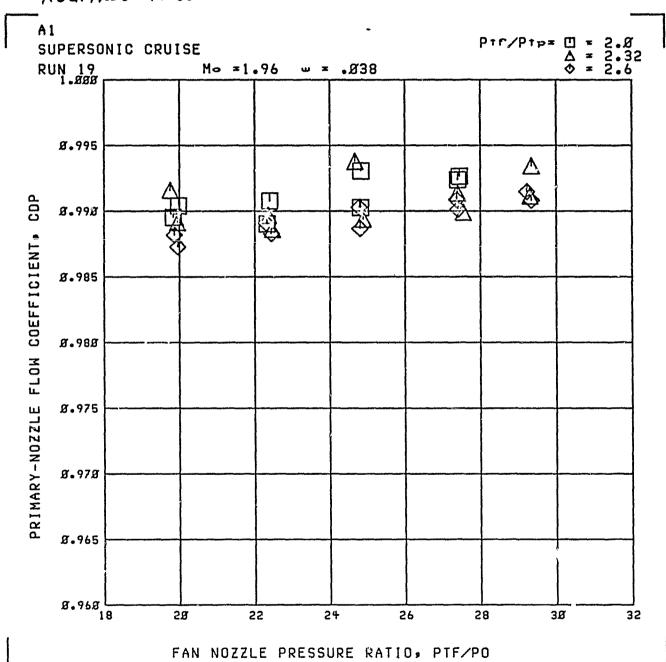
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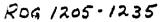


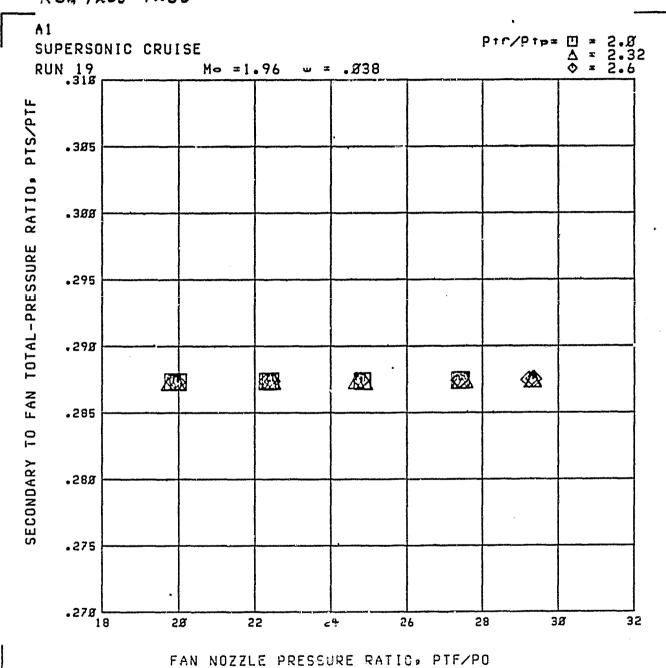
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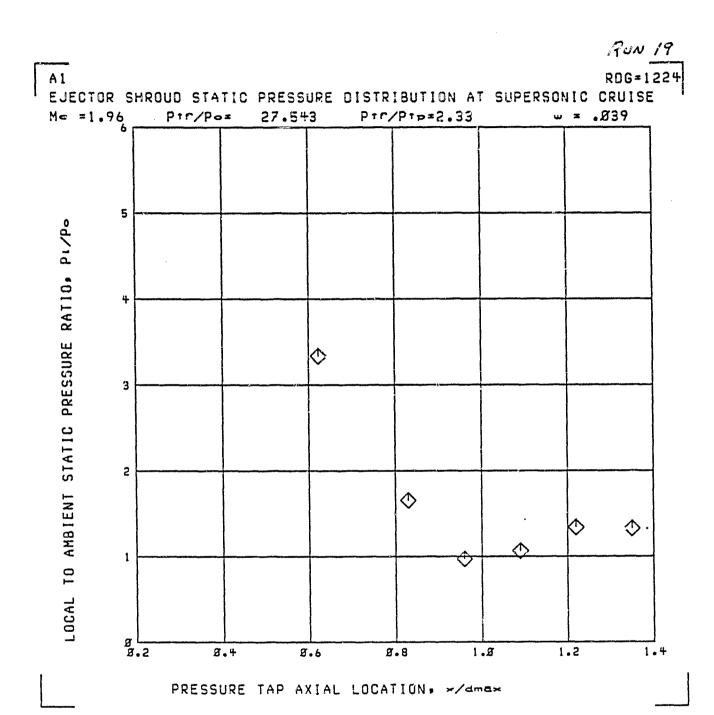


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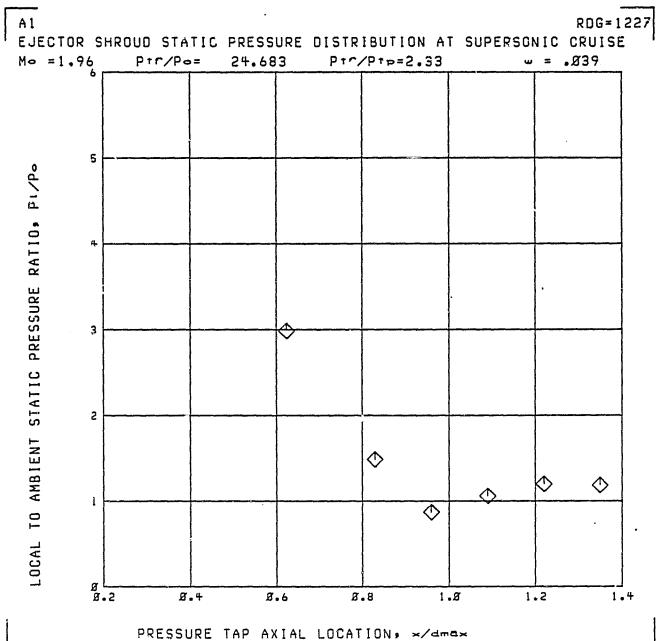




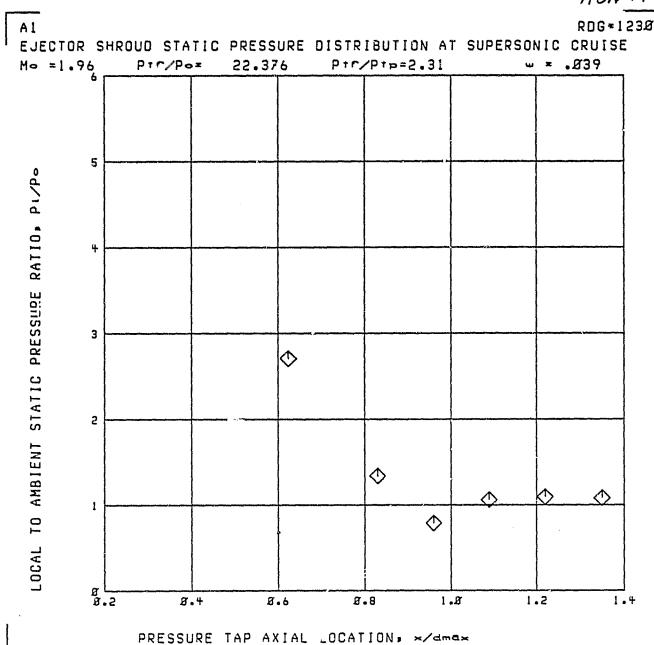


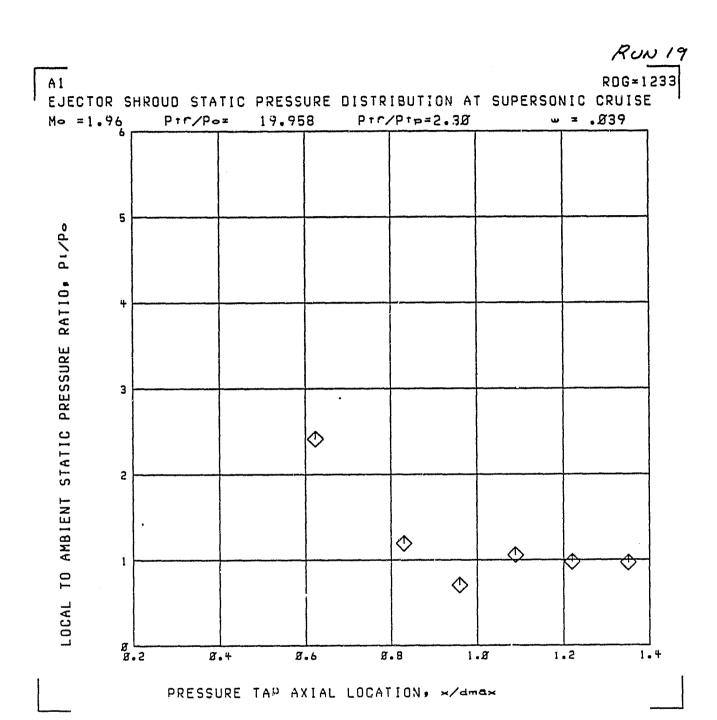


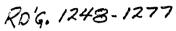


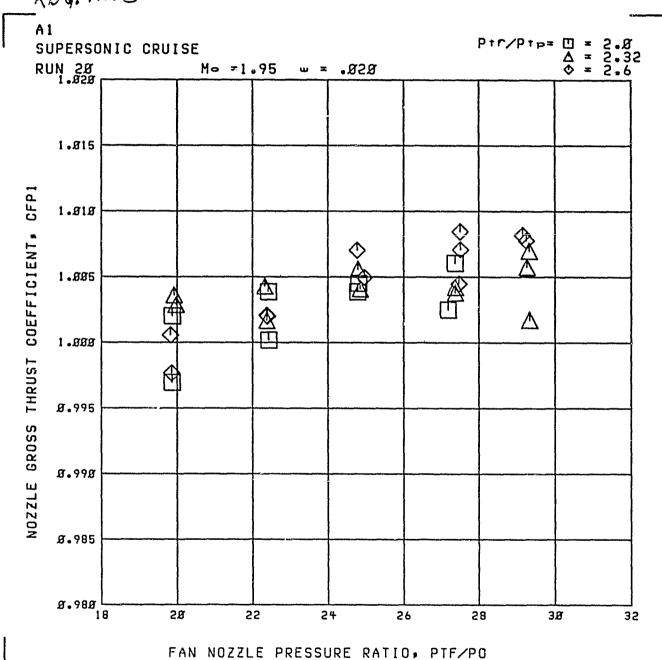


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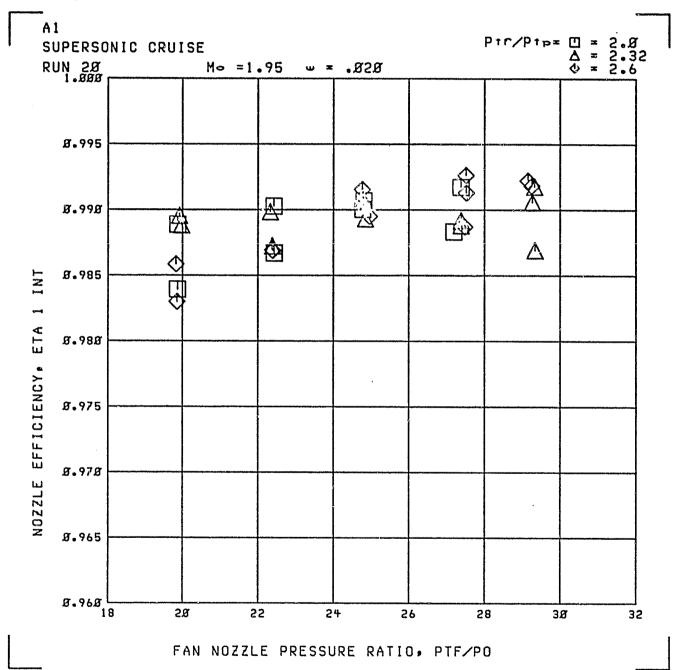


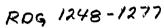


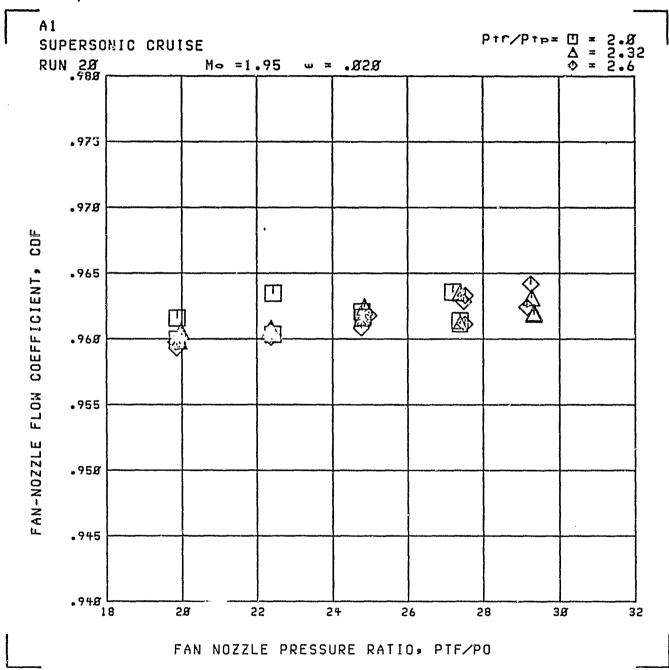




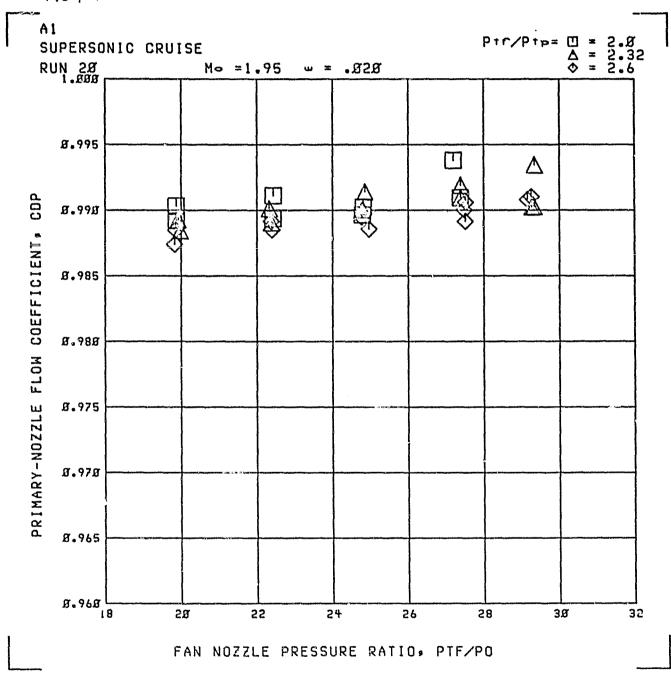
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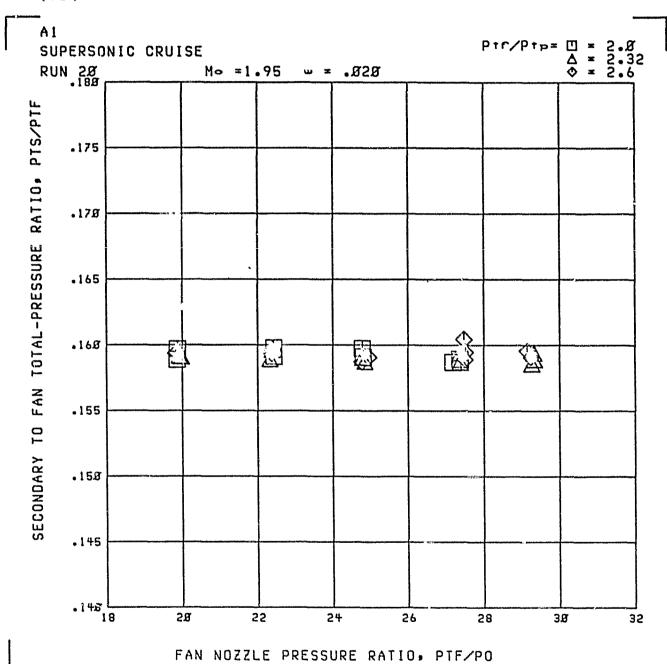


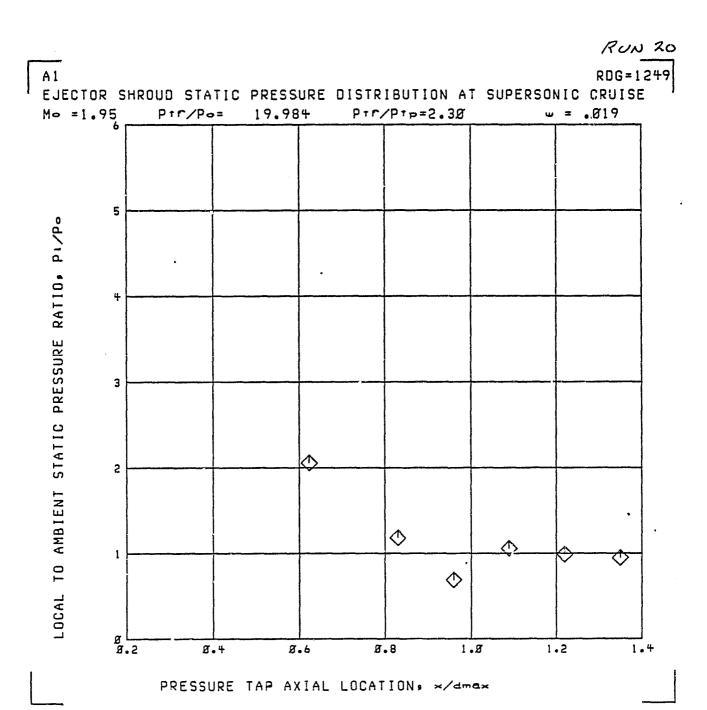


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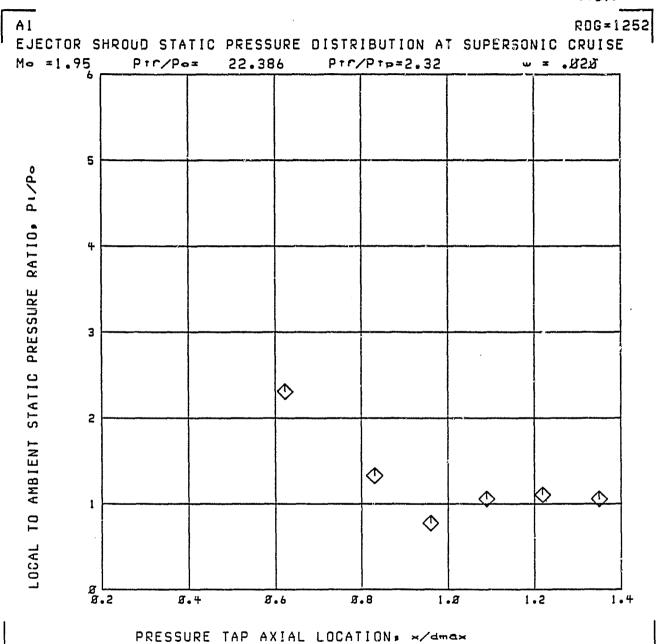


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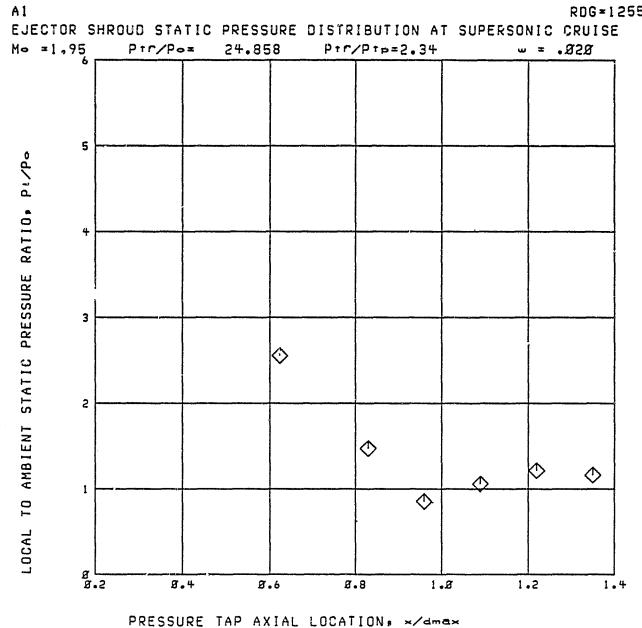




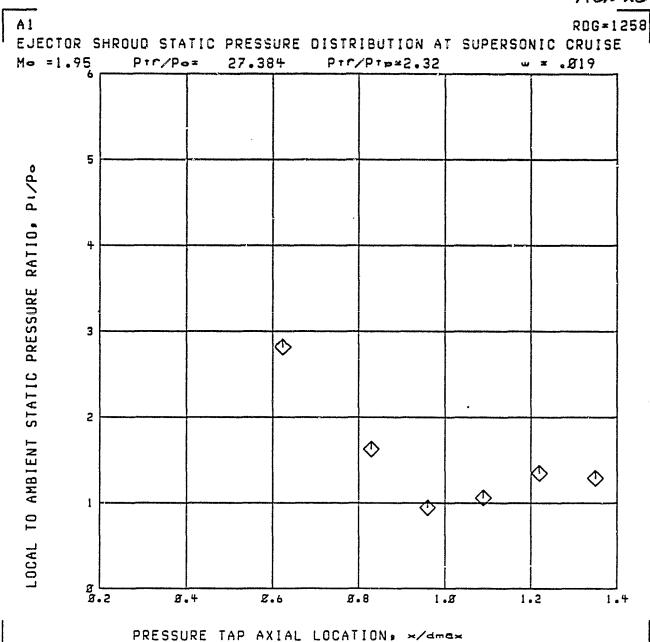
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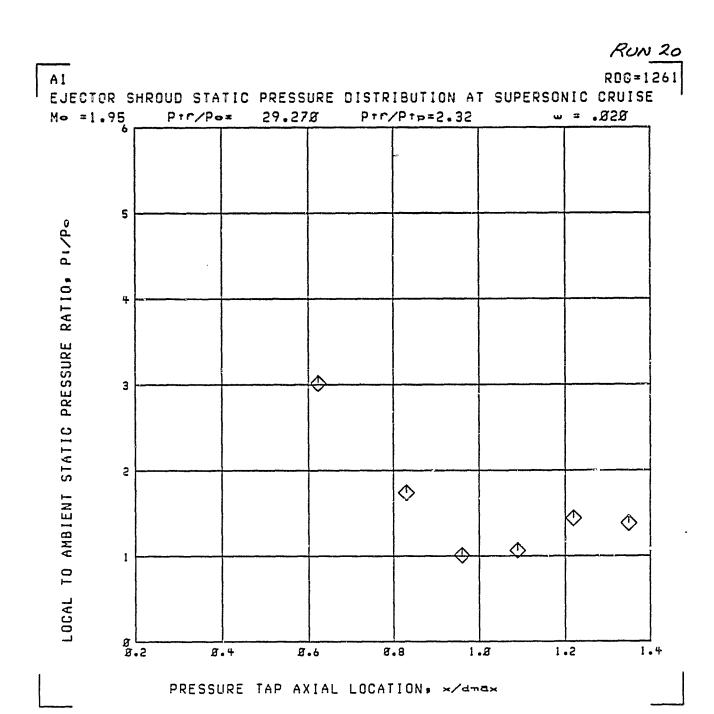




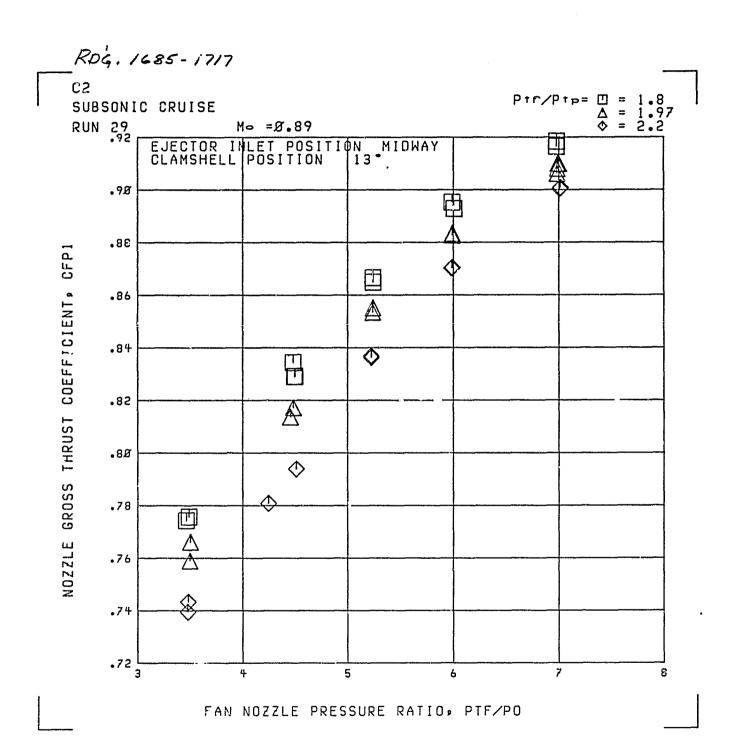




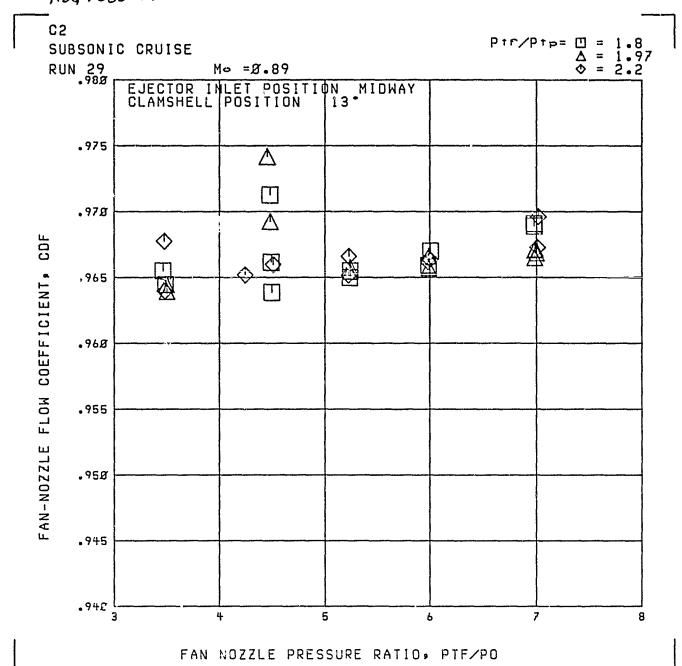


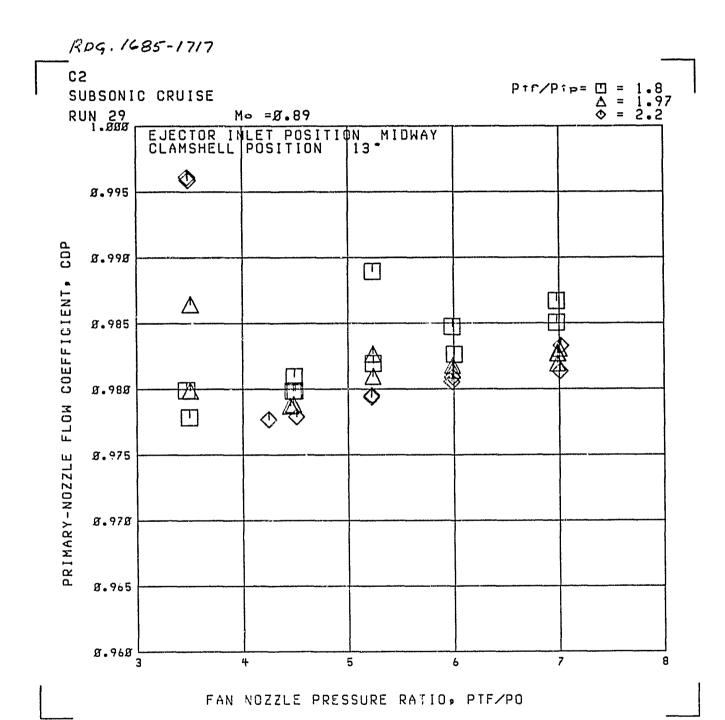


CONFIGURATION C₂
SHORT FLAP NOZZLE
SUBSONIC CRUISE



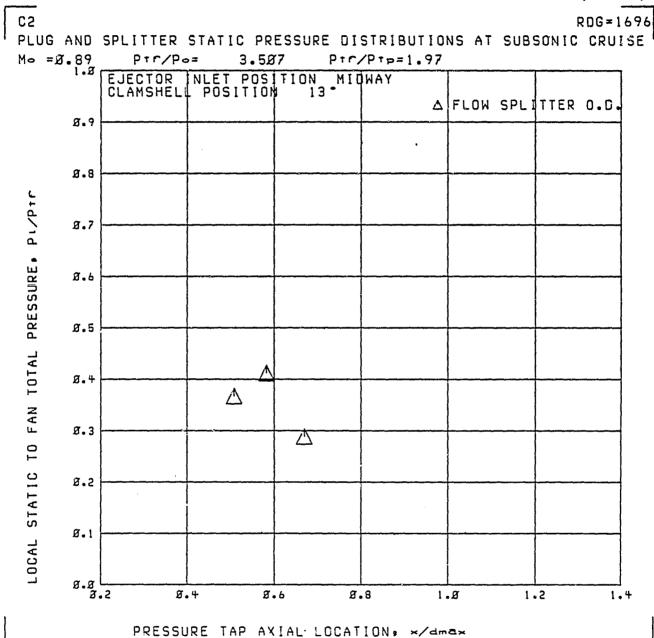
ROG 1685-1717





RUN 29

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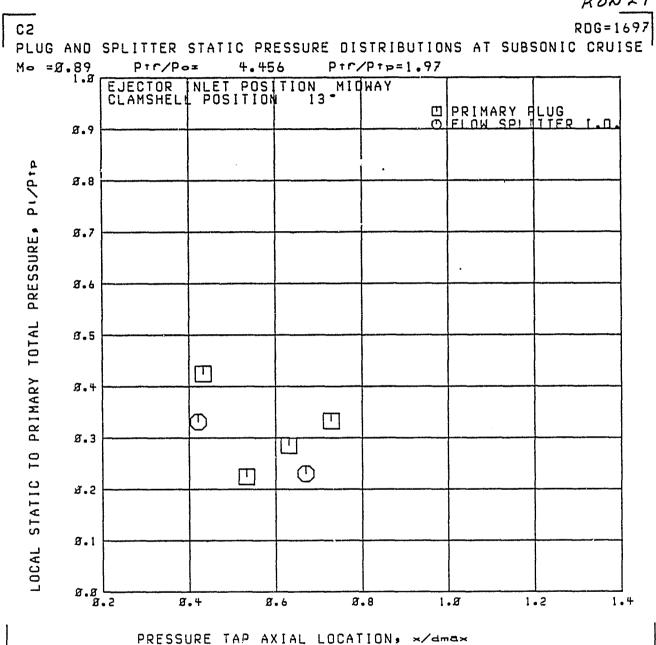


RDG=1696 C2 EJECTOR INLET AND SHROUD STATIC PRESSURE DISTRIBUTION $M = \emptyset.89$ Ptr/Ptp=1.97 AT SUBSONIC CRUISE Ptr/Po= 3.507 EJECTOR NLET POSITION MIDWAY CLAMSHELL POSITION 13 □ FOREBODY INLET

Δ 2Ø SHROUD LOCATION

◆ 8Ø SHROUD LOCATION 1.2 P1/Po 1.1 \Diamond RATIO. 1.0 STATIC PRESSURE Ø.9 Ø.8 LOCAL TO AMBIENT Ø.7 سئل 8.6 Ø.5 L 1.2 1.4 8.4 8.6 Ø.8 1.8 PRESSURE TAP AXIAL LOCATION, x/dmax

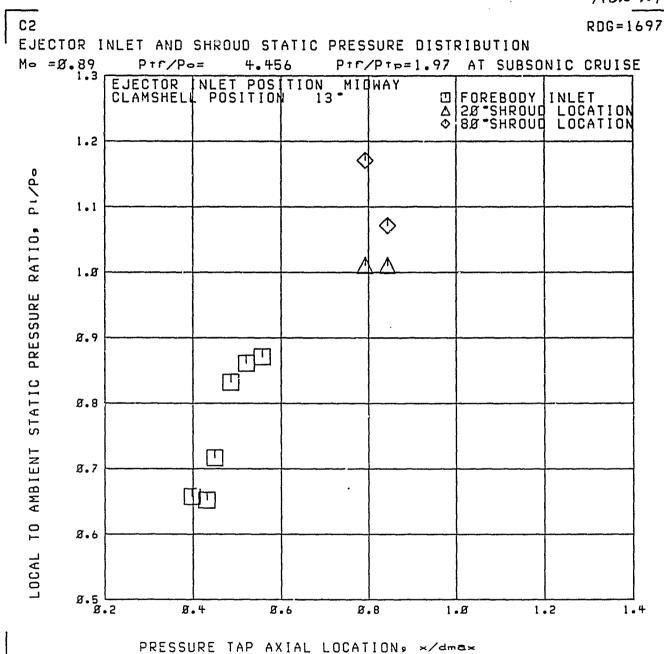
RUN 29



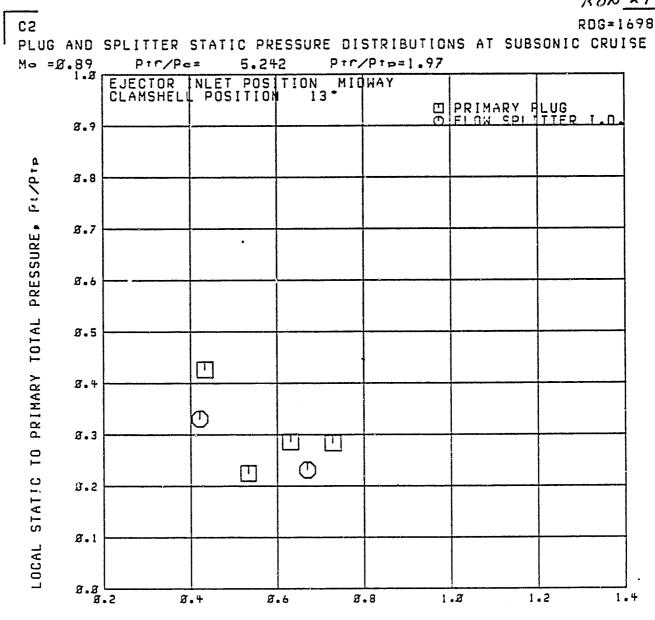
RUN 29 RDG=1697 CS PLUG AND SPLITTER STATIC PRESSURE DISTRIBUTIONS AT SUBSONIC CRUISE Mo =Ø.89 Ptr/Po= 4.456 Ptr/Ptp=1.97 EJECTOR INLET POSITION MIDWAY CLAMSHELL POSITION 13 A FLOW SPLITTER 0.0. Ø.9 ø.8 PRESSURE, PIZPIF 8.7 8.6 Ø.5 FAN TOTAL Ø.4 Δ Ø.3 LOCAL STATIC TO Ø.2 8.1 8.8 1.2 1.4 8.4 8.6 8.8 1.8

PRESSURE TAP AXIAL LOCATION, x/dmax



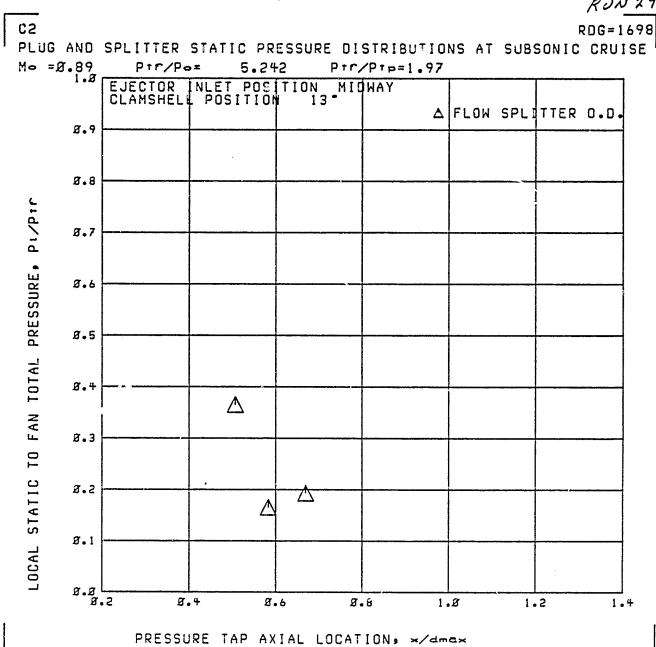




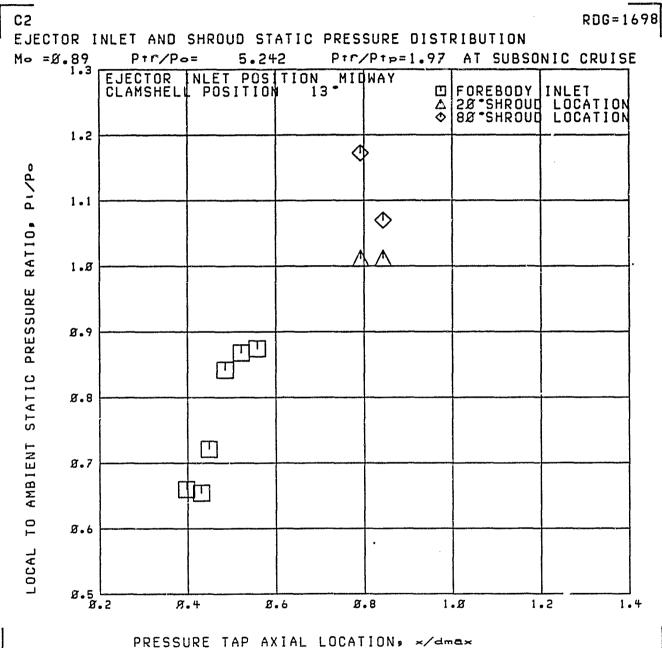


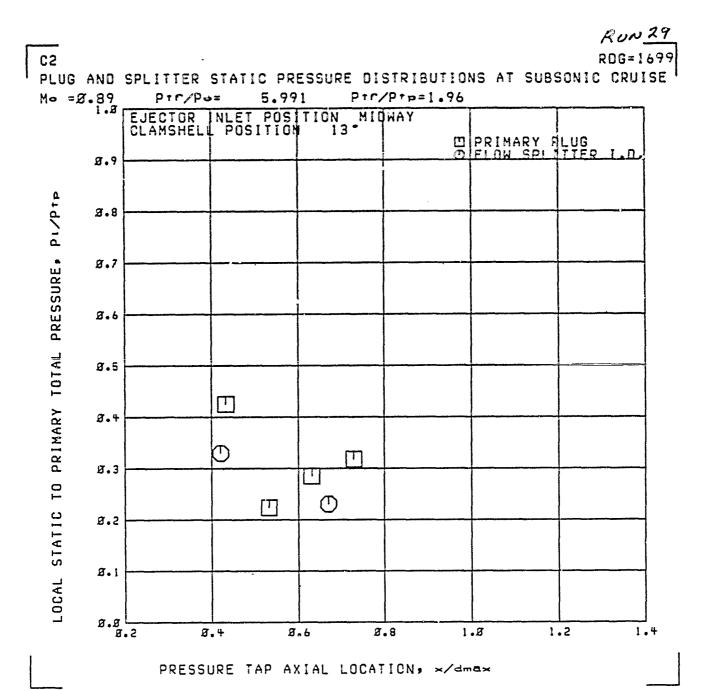
PRESSURE TAP AXIAL LOCATION, x/dmax

RUN 29

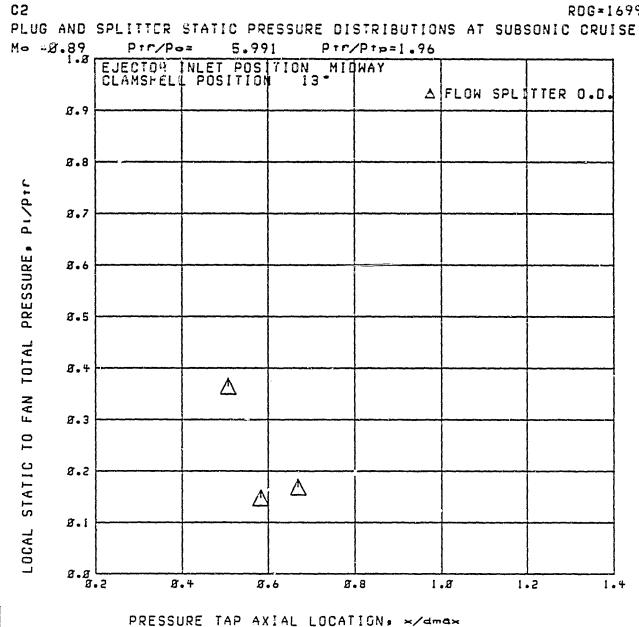




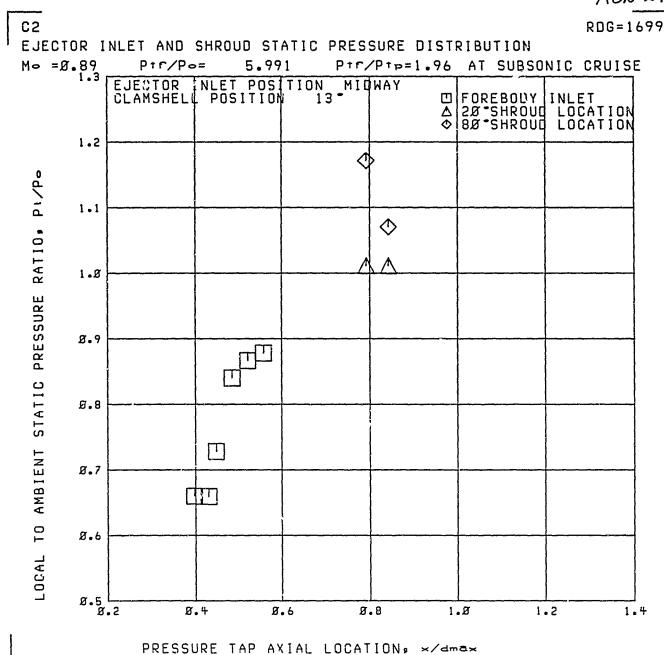




RUN 29 RDG=1699



RUN 29



8.5

8.4

RDG=1700

1.2

1.4

CS PLUG AND SPLITTER STATIC PRESSURE DISTRIBUTIONS AT SUBSONIC CRUISE Mo =Ø.89 1.8 Ptr/Po= 6.986 Ptr/Ptp=1.97 EJECTOR NLET POSITION MIDWAY CLAMSHELL POSITION 13 PRIMARY FLUG 8.9 LOCAL STATIC TO PRIMARY TOTAL PRESSURE, PIZPTP Ø.8 8.7 8.6 ø.5 8.4 Ø.3 (1) П 8.2 8.1

PRESSURE TAP AXIAL LOCATION = */dmax

Ø.8

1.8

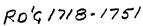
8.6

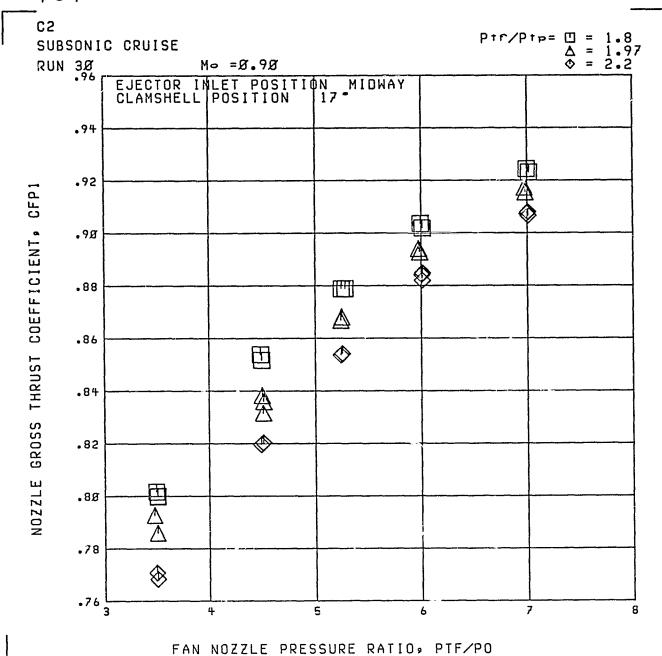
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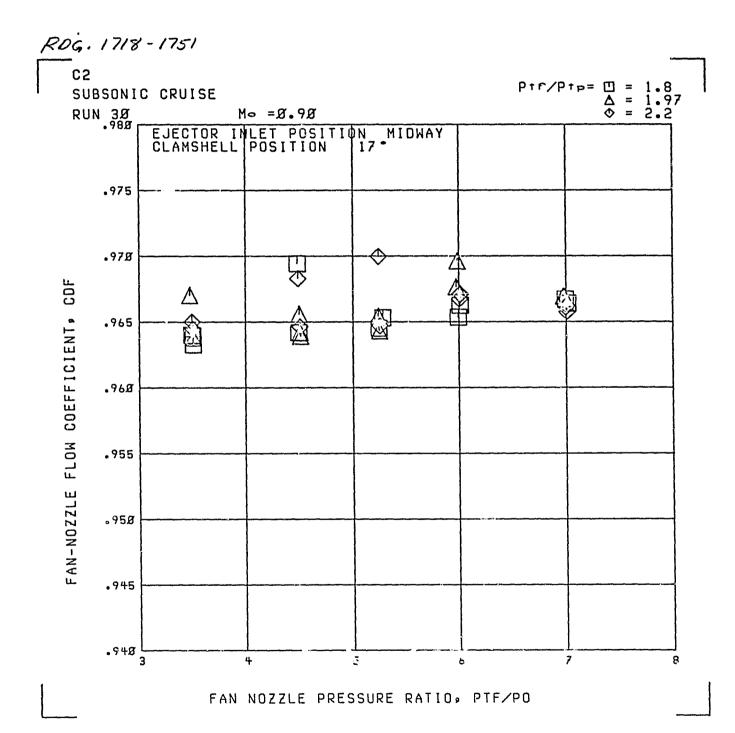
RDG=1700 CS EJECTOR INLET AND SHROUD STATIC PRESSURE DISTRIBUTION Mo =Ø.89 Ptr/Ptp=1.97 AT SUBSONIC CRUISE =09/719 6.986 EJECTOR INLET POSITION MIDWAY CLAMSHELL POSITION 13 ☐ FOREBODY INLET

△ 20 *SHRQUD LOCATION

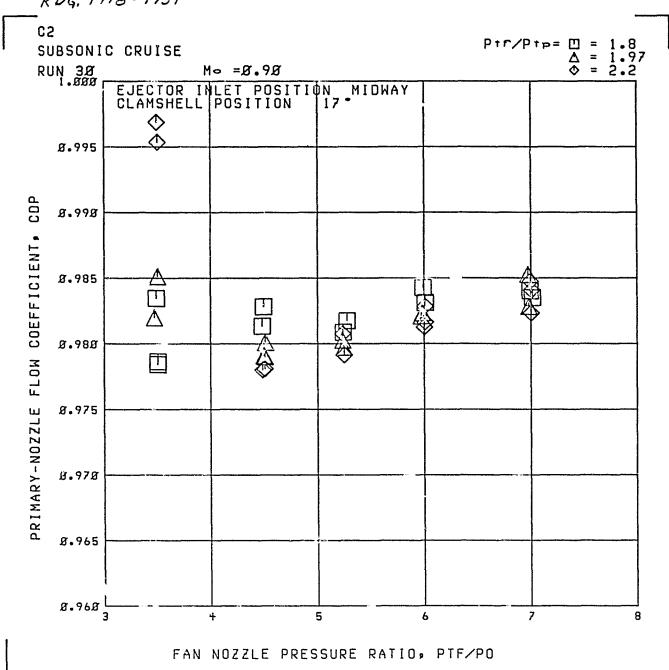
◆ 80 *SHRQUD LOCATION 1.2 1.1 RATIO. 1.8 PRESSURE Ø.9 STATIC Ø.8 AMBIENT Ø.7 10 8.6 LOCAL Ø.5 L Ø.6 Ø.8 1.0 Đ.4 PRESSURE TAP AXIAL LOCATION, x/dmax





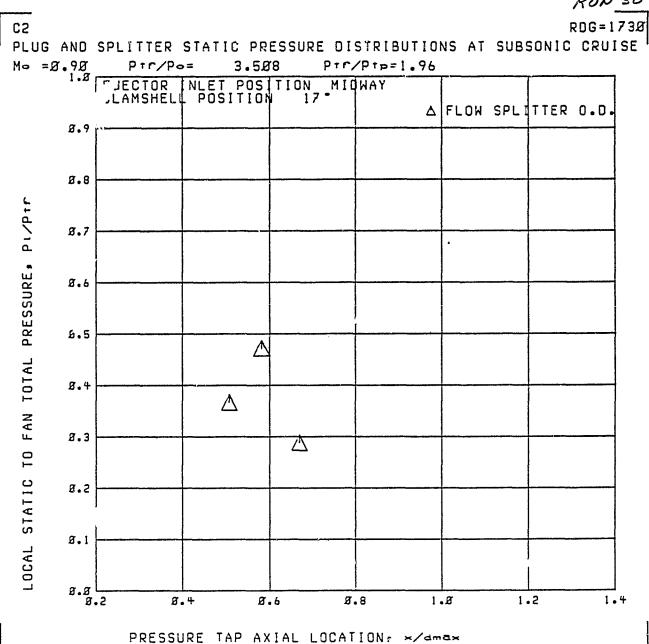


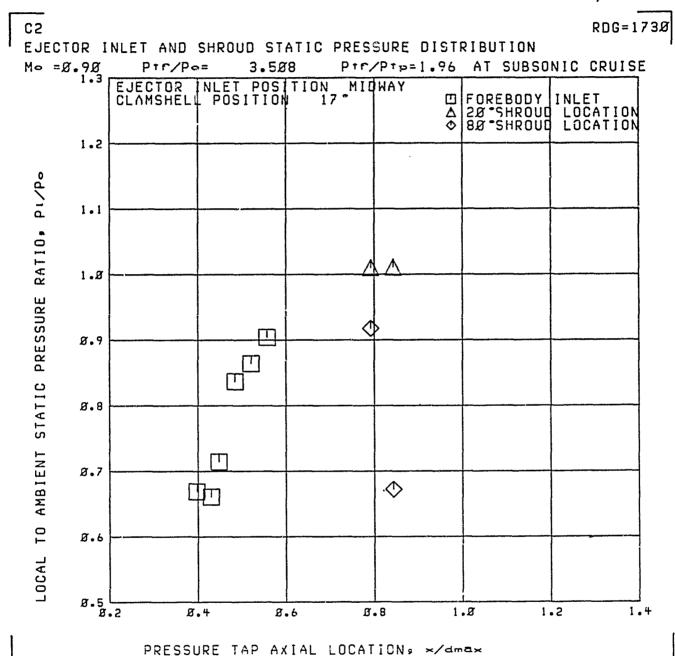
RDG. 1718 - 1751



C2 RDG = 173Ø PLUG AND SPLITTER STATIC PRESSURE DISTRIBUTIONS AT SUBSONIC CRUISE Mo =Ø.9Ø PTF/PTP=1.96 PTC/Po= 3.508 EJECTOR INLET POSITION MIDWAY CLAMSHELL POSITION 17 D PRIMARY FLUG D FLOW SPITTER 8.9 PRESSURE, PIZPTP Ø.8 **3.7** 8.6 PRIMARY TOTAL Ø.5 8.4 Ø.3 10 LOCAL STATIC **3.2** 8.1 ø.ø.2 8.4 8.6 Ø.8 1.8 1.2 1.4 PRESSURE TAP AXIAL LOCATION, */dmax

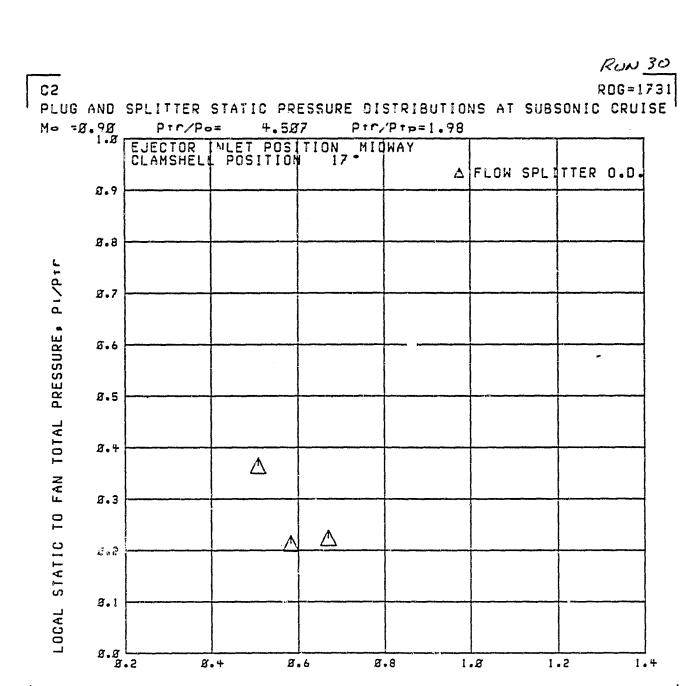






RUN 30

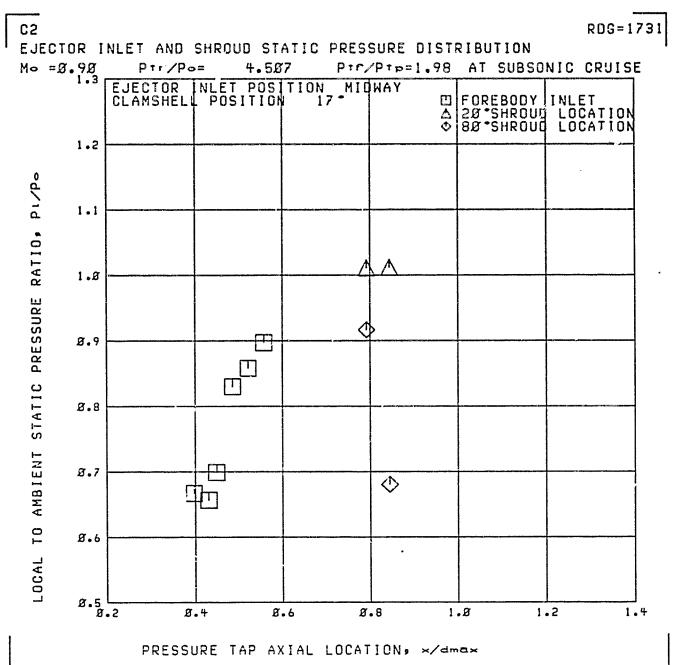
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PI/Ptp											1	
	Ø.7											
PRESSURE.												!
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PRESSURE TAP AXIAL LOCATION: */dmax

FUN 30



RUN 30

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	Ø.7										_
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TOTAL	ø.5										
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RDG=1732 CS TWIG AND SPLITTER STATIC PRESSURE DISTRIBUTIONS AT SUBSONIC CRUISE =ؕ9Ø 1•Ø PTF/81p=1,97 5.238 EJECTOR INLET POSITION HIGHAY CLAMSHELL POSITION 17. A | FLOW SPLITTER O.D. 8.9 3.8 LOCAL STATIC TO FAN TOTAL PRESSURE, PIZPIT 8.7 Ø.6 Ø.5 8.4 Δ Ø.3 ø.2 Λ 8.1 ø.g._ 8.2 1.2 1.4 Ø.6 Ø.8 1.2 PRESSURE TAP AXIAL LOCATION: x/dmax

C-2

RDG=1732 CS EJECTOR INLET AND SHROUD STATIC PRESSURE DISTRIBUTION Mo =9.98 Ptr/Ptp=1.97 AT SUBSONIC CRUISE PIC/Po= 5.238 EJECTOR INLET POSITION MIDWAY CLAMSHELL POSITION 17 ☐ FOREBODY INLET

△ 20 SHROUD LOCATION

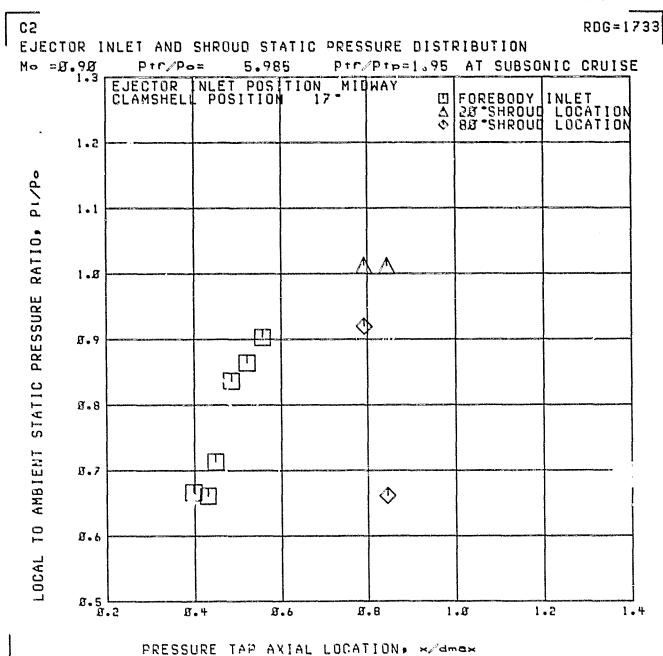
◆ 80 SHROUD LOCATION 1.2 STATIC PRESSURE RATIG. PIZPS 1.1 1.8 8.9 Ш 8.8 TO AMBIENT B.7 \Diamond Ø.6 LOCAL 8.5 L 8.6 Ø.4 8.8 1.8 1.2 1.4 PRESSURE TAP AXIAL LOCATION: x/dmax

RUN 30

		SPLITTER						NS AT	SUBS	R	DG=17 CRUIS	
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	ø.7									<u>₩</u>		
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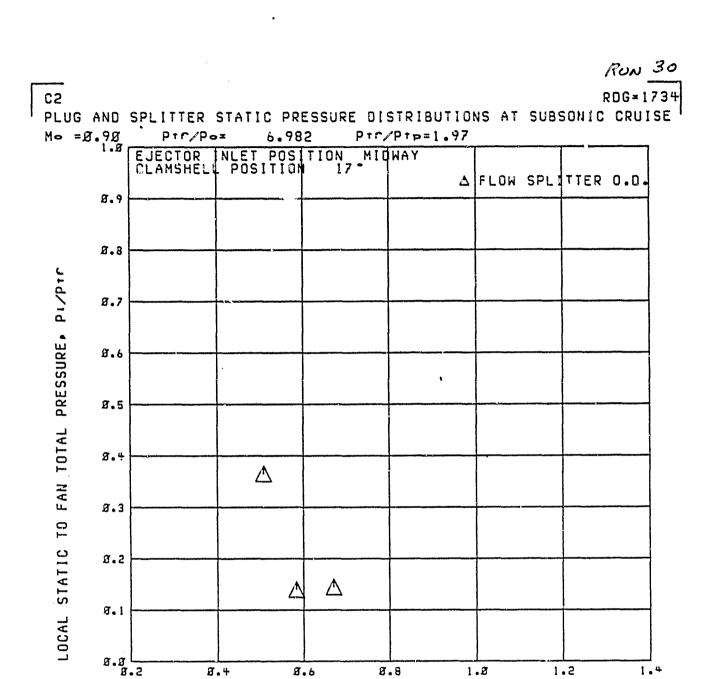
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PI/PTF	Ø.7								, <u>, , , , , , , , , , , , , , , , , , </u>			
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		PRESSU	JRE TAP	AXI	AL LOC	ATION.	×gº⊲m	α×				

FJN 30



RUN 30

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PRESSURE TAP AXIAL LOCATION: x/dmax

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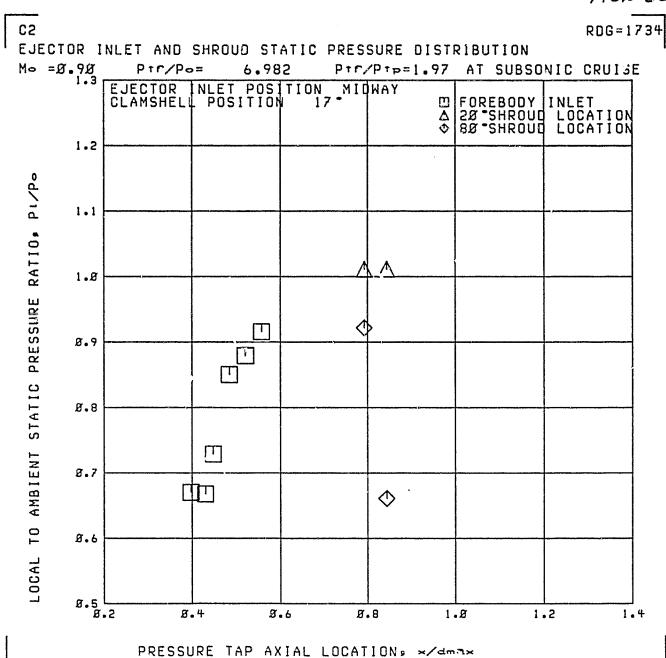
1.2

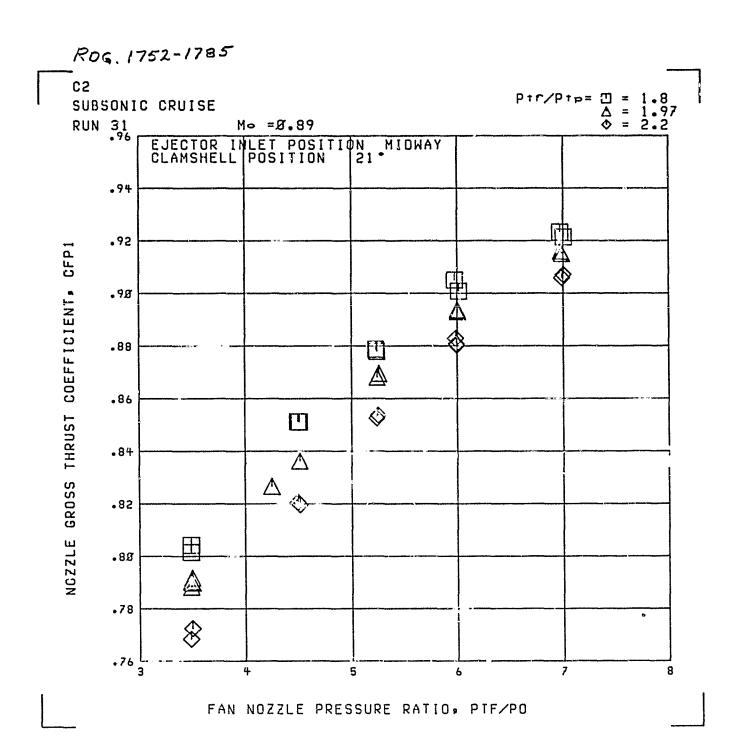
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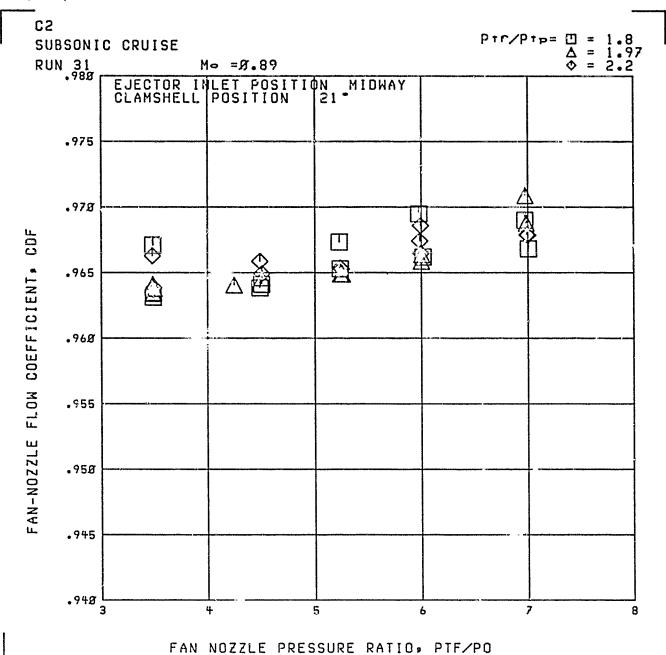
8.4

RUN 30

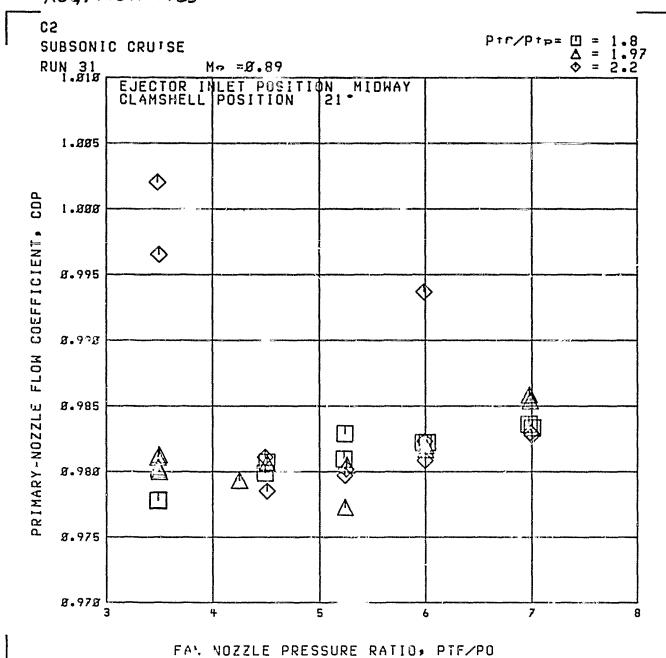




RDG. 1752-1785



ROG. 1752-1785



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RON 31

C2 RDG=1763

PLUG AND SPLITTER STATIC PRESSURE DISTRIBUTIONS AT SUBSONIC CRUISE Mo =3.98 P: P/Po= 3.497 Ptr/Ptp=1.95 EJECTOR NLET POSITION MIDWAY CLAMSHELL POSITION 21 PRIMARY FLUG 2.9 LOCAL STATIC TO PRIMARY TOTAL PRESSURE, PL/Ptp 8.8 3.7 8.6 Ø.5 3.4 **3.3** 8.2 Ø.1 8.8 1.0 1.2 1.4 Ø.4 8.6 Ø.8

PRESSURE TAP AXIAL LOCATION: */dmax

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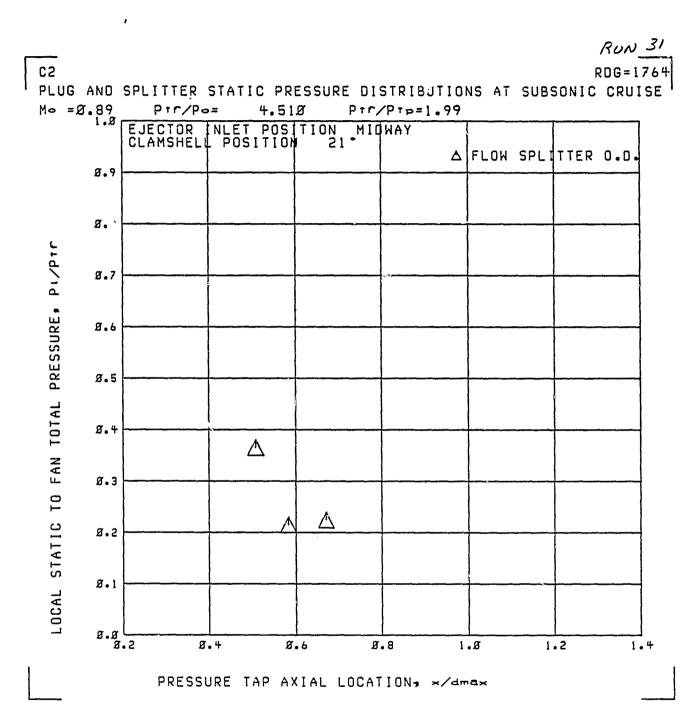
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	JECT		NLET AND	SHROUD	STAT	IC PRES	SURE	DIST	RIBU.	TION		RDG=1	.763
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RUN31

	ANG	SPLITTER P+r/P		C PRI			TRIBU Tp=1		NS A	AT SUE		RDG=1 CRU!	764
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FUN 31

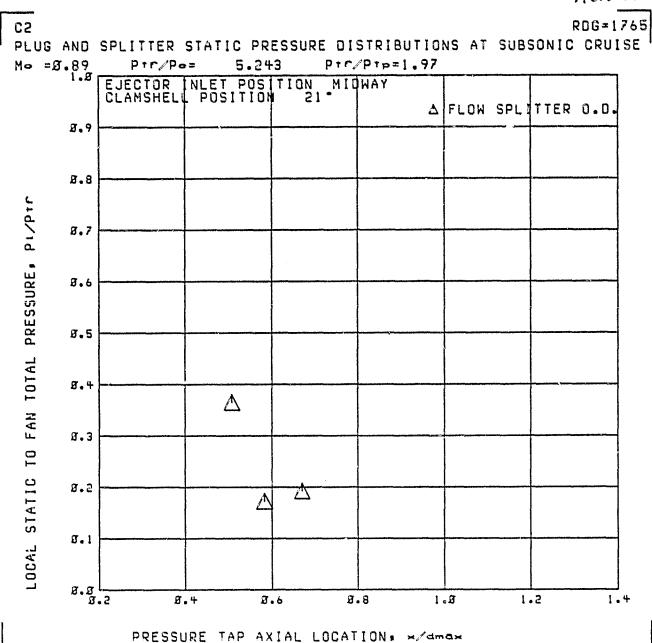
RDG=1764 CS EJECTOR INLET AND SHROUD STATES PRESSURE DISTRIBUTION Mo =3.89 Ptr/Po= 4.51. Ptr/Ptp=1.99 AT SUBSONIC CRUISE EJECTOR INLET POST . MIDWAY CLAMSHELL POSITION 21 FOREBODY INLET 28 SHROUD LOCATION 88 SHROUD LOCATION 40 1.2 P1/Po 1.1 RATIO 1.8 PRESSURE g.9 Ш STATIC 8.8 TO AMBIENT 9.7 0 CITY TO 8.6 LOCAL B.5 L 8.4 8.6 8.8 1.8 1.2 1.4

PRESSURE TAP AVIAL LOCATION . * dmax

RUN 31

		SPLITTER							IS AT	SUB		RDG=1	765
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RUN 31



CS RDG=1765 EJECTOR INLET AND SHROUD STATIC PRESSURE DISTRIBUTION Mo =Ø.89 Ptr/Po= 5.243 Ptr/Ptp=1.97 AT SUBSONIC CRUISE EJECTOR INLET POSITION MIDWAY CLAMSHELL POSITION 21 FOREBODY INLET 20°SHROUD LOCATION 80°SHROUD LOCATION $\overline{\Delta}$ 1.2 Pi/Po 1.1 RAT10, 1.8 STATIC PRESSURE 8.9 8.8 AMBIENT 8.7 \Diamond U LOCAL TO 8.6 8.5 L 1.4 8.4 Ø.6 8.8 1.0 1.2 PRESSURE TAP AXIAL LOCATION, x/dmax

RUN 31

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PRESSURE,	8.6										<u></u>	***************************************		-
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RUN 31

C2 PLUG	AND	SPLITTER	STATIC (PRESSUR	E DISTR	IBUTIO	NS AT	SUBS	F	DG=176 CRUISE
Mo =	Ø.9Ø	Ptr/Pa		ØØ5	Ptr/Pt	p=1.96				
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	Ø.8									
p1/p1r	Ø.7									
PRESSURE.	8.6									
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RUN 31

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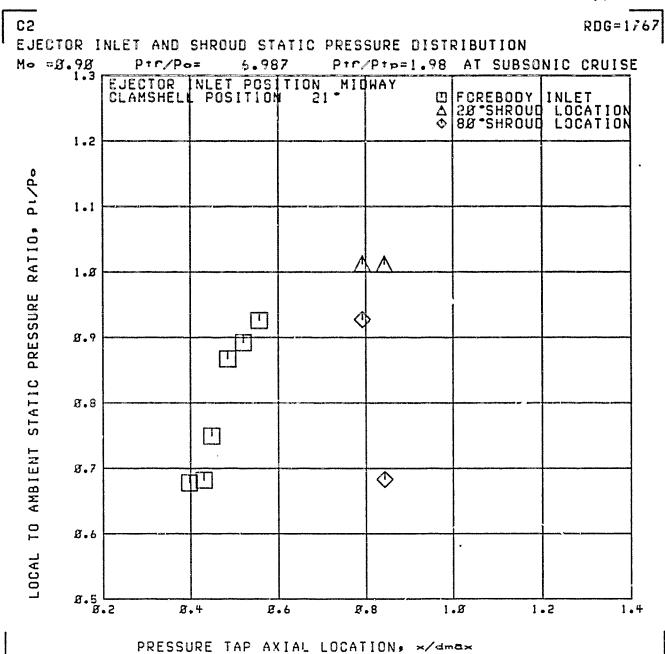
RUN 31

C2 PLUG AI	סא	SPLITTER	STAT	IC PR	ESSURI	E DISTR	IBUTIO	NS AT S	SUBSOMIC	RDG=1767 CRUISE
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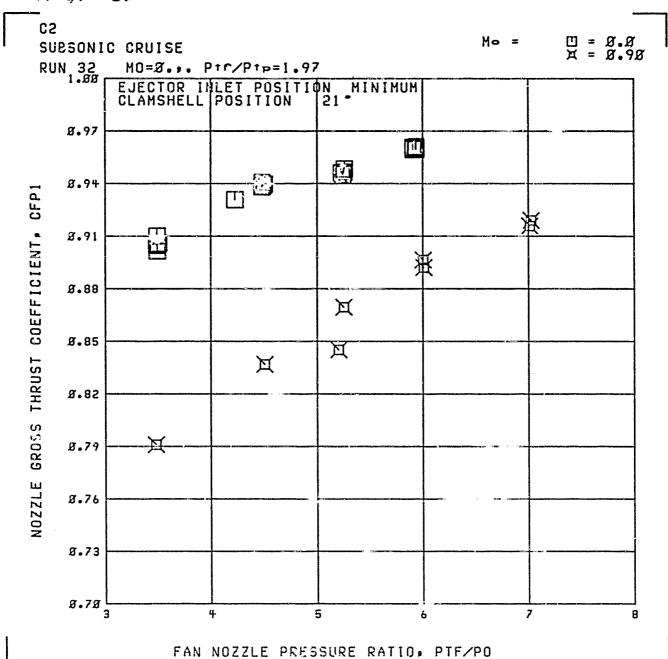
RUN 31

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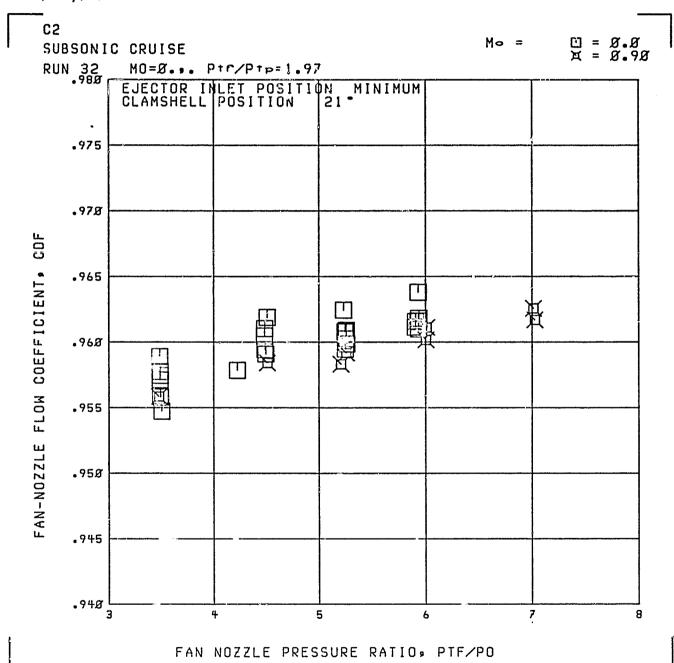
RUN 31



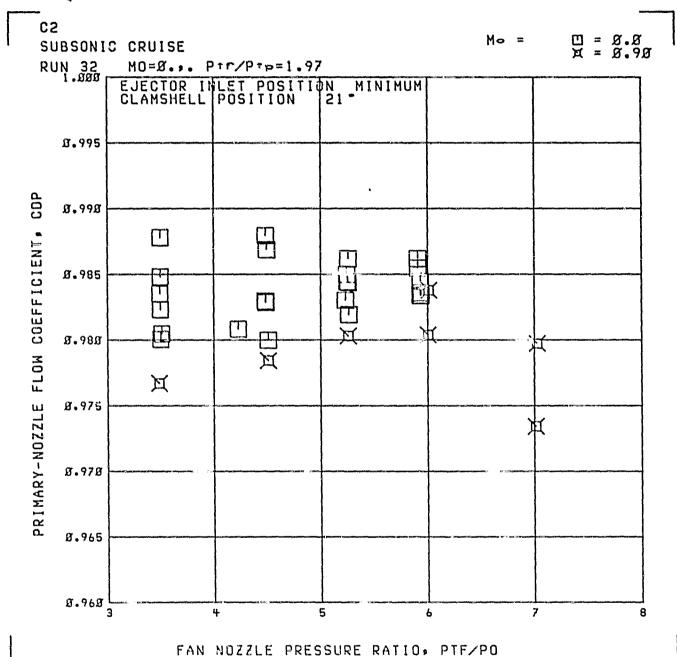
206.1786-1828



Rog. 1786-1828

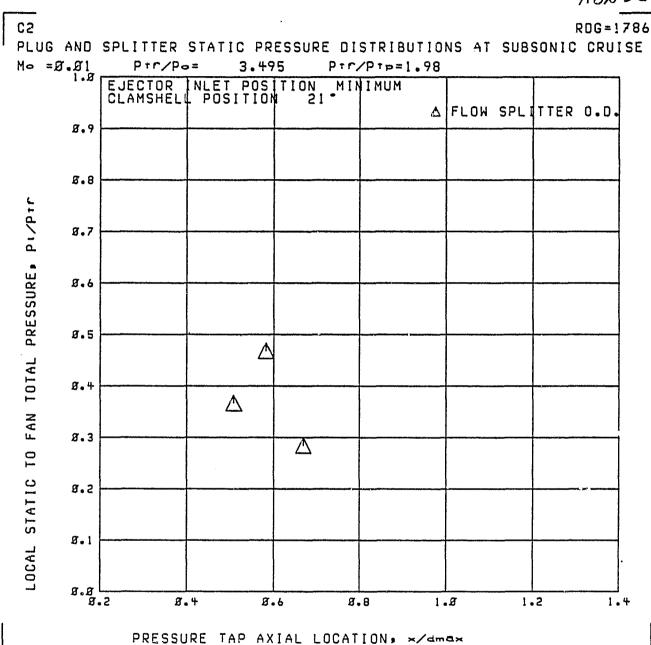


ROG 1786-1828

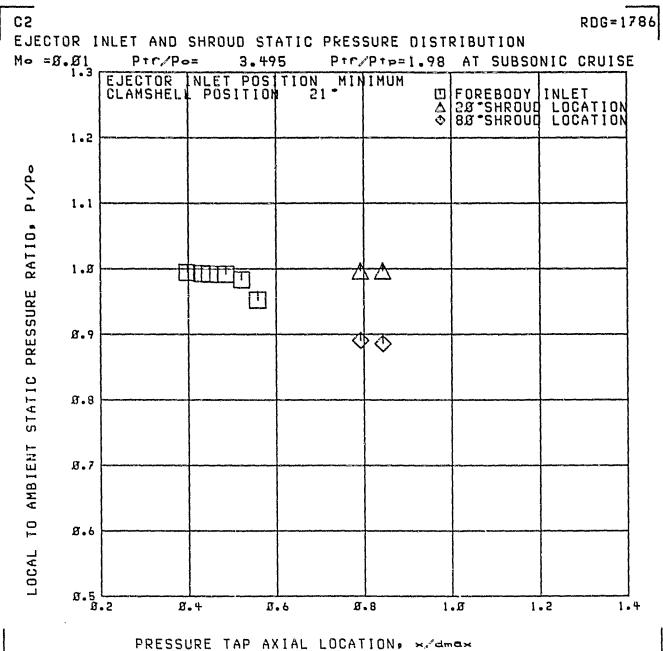


C2 PLUG	AND	SPLITTER	STAT	IC PR	ESSURE	DISTRI	BUTIO	NS AT SI	1	ROG=178 CRUISE
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RUN 32



RUN 32



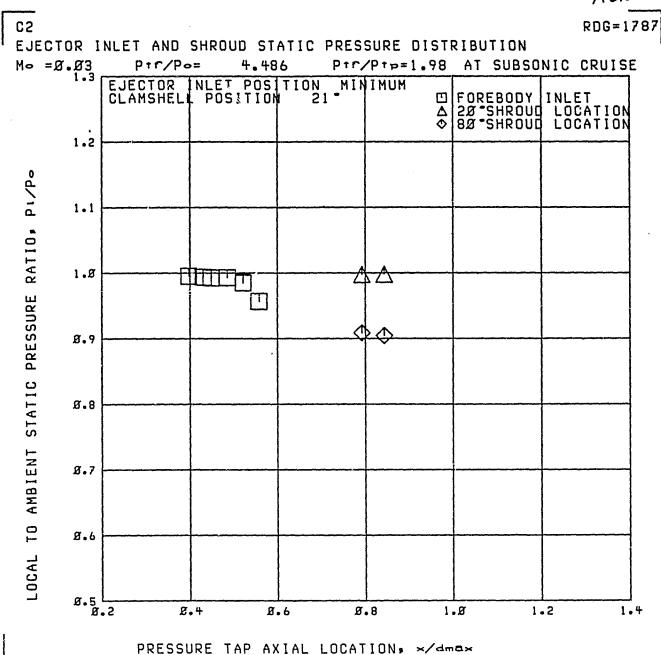
RUN 32

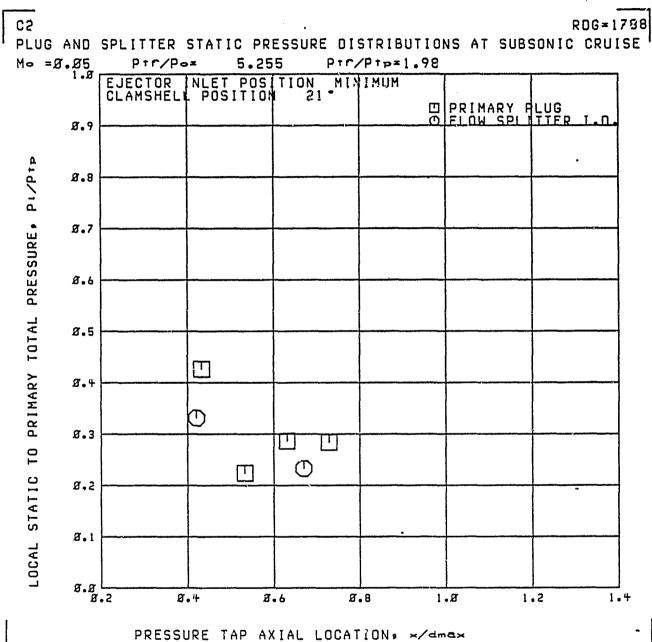
RDG=1787 CS PLUG AND SPLITTER STATIC PRESSURE DISTRIBUTIONS AT SUBSONIC CRUISE Mo =Ø.Ø3 PTC/Po= 4.486 Ptr/Ptp=1.98 EJECTOR NLET POSITION MINIMUM CLAMSHELL POSITION 21 PRIMARY FLUG 8.9 LOCAL STATIC TO PRIMARY TOTAL PRESSURE, PIZPTP Ø.8 8.7 8.6 Ø.5 П 8.4 **D** ø.3 (1) Т 8.2 8.1 8.8 L 1.4 8.4 8.6 Ø.8 1.8 1.2 PRESSURE TAP AXIAL LOCATION: x/dmax

RUN 32

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RUN 32





RUN 32

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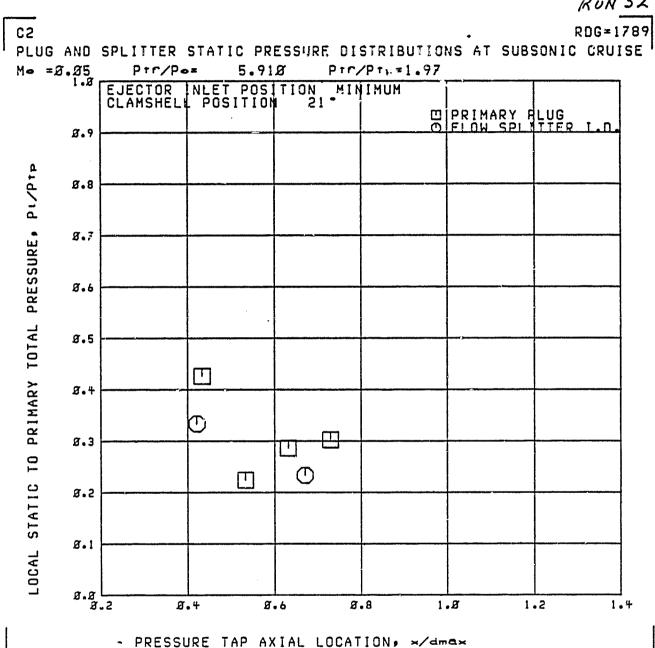
RDG=1788 CS EJECTOR INLET AND SHROUD STATIC PRESSURE DISTRIBUTION Mo = Ø. Ø5 1.3 Ptr/Po= 5.255 Ptr/Ptp=1.98 AT SUBSONIC CRUISE EJECTOR INLET POSITION MINIMUM CLAMSHELL POSITION 21 ☐ FOREBODY INLET

△ 20 SHROUD LOCATION

◆ 80 SHROUD LOCATION 1.2 RATIO. PLZPo 1.1 1.8 PRESSURE Ø.9 STATIC Ø.8 **AMBIENT** Ø.7 10 Ø.6 LOCAL Ø.5 L 1.2 1.4 Ø.4 Ø.6 Ø.8 1.8

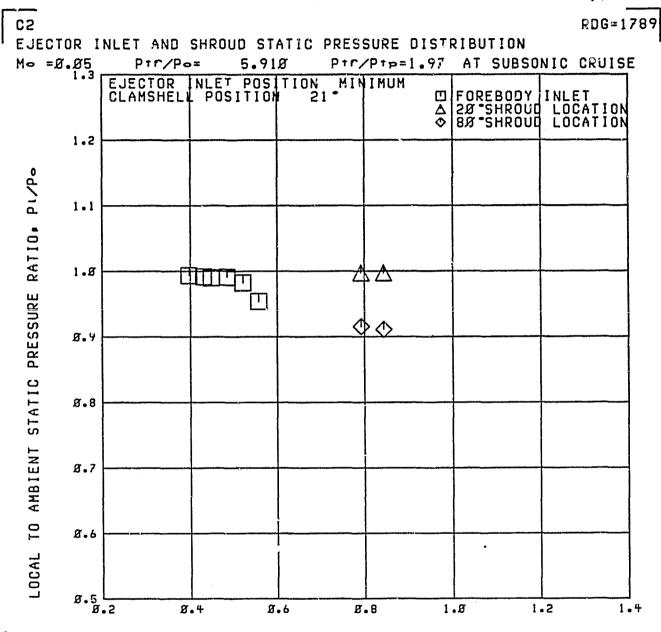
PRESSURE TAP AXIAL LOCATION, x/dmax

RUN 32



RUN 32

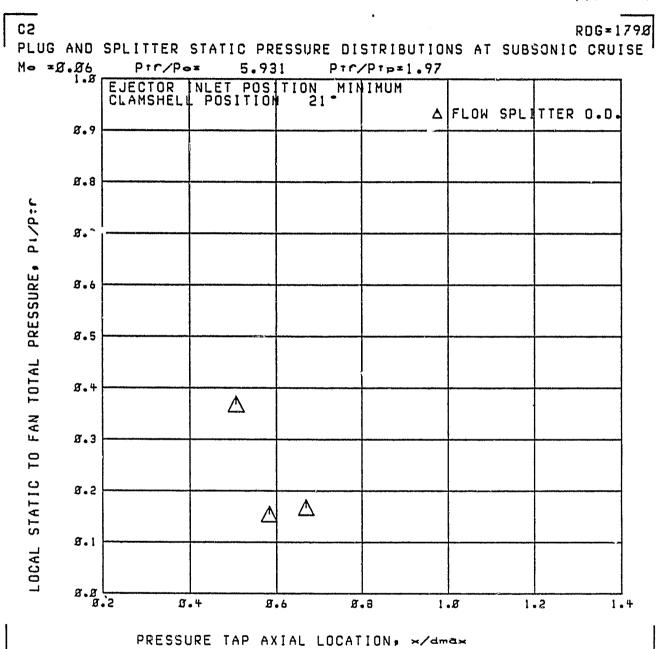
	C2 PLUG	AND	SPLITTE							IS AT	SUB		RDG = 1 CRU1	
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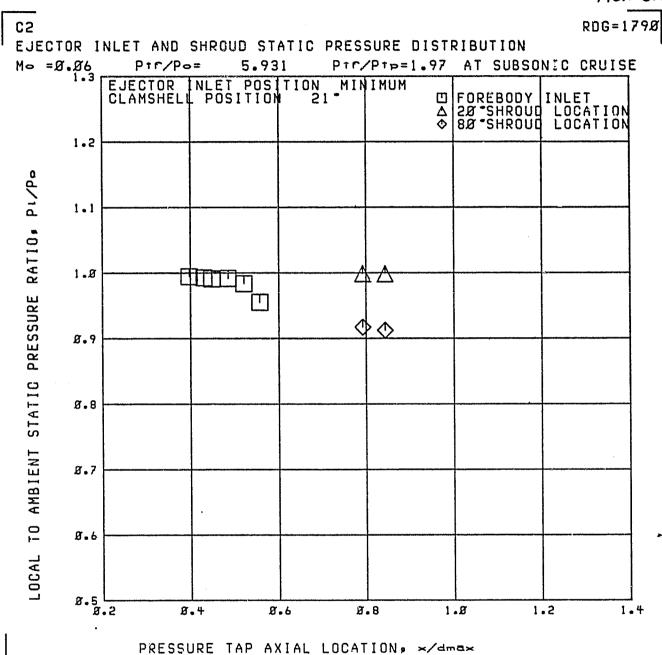
PRESSURE TAP AXIAL LOCATION: x/dmax

02 RDG=179Ø FLUG AND SPLITTER STATIC PRESSURE DISTRIBUTIONS AT SUBSONIC CRUISE 08.8= om Ptr/Po= 5.931 Ptr/Ptp=1.97 EJECTOR INLET POSITION MINIMUM CLAMSHELL POSITION 21 PRIMARY FLUG 8.9 LOCAL STATIC TO PRIMARY TOTAL PRESSURE, PIZPTP Ø.8 Ø.7 8.6 Ø.5 Ø.4 Ø.3 П 8.2 9.1 8.8 8.4 8.6 Ø.8 1.2 1.2 PRESSURE TAP AXIAL LOCATION, x/dmax

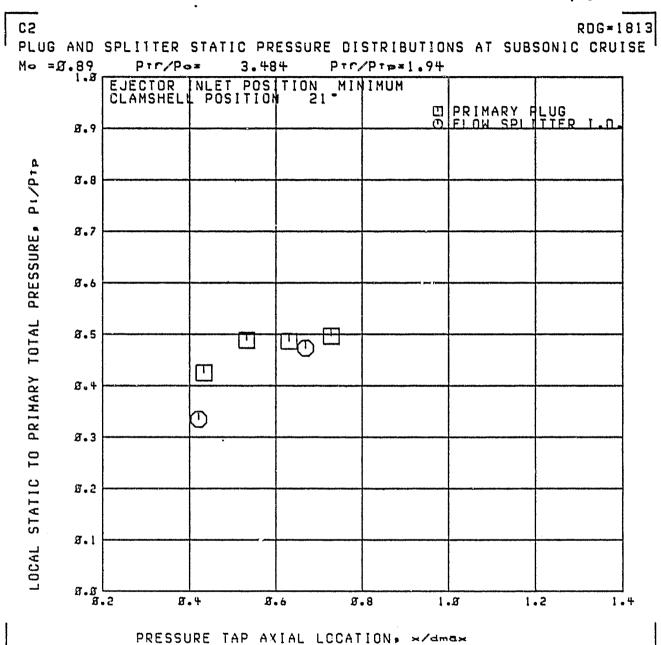
RUN 32



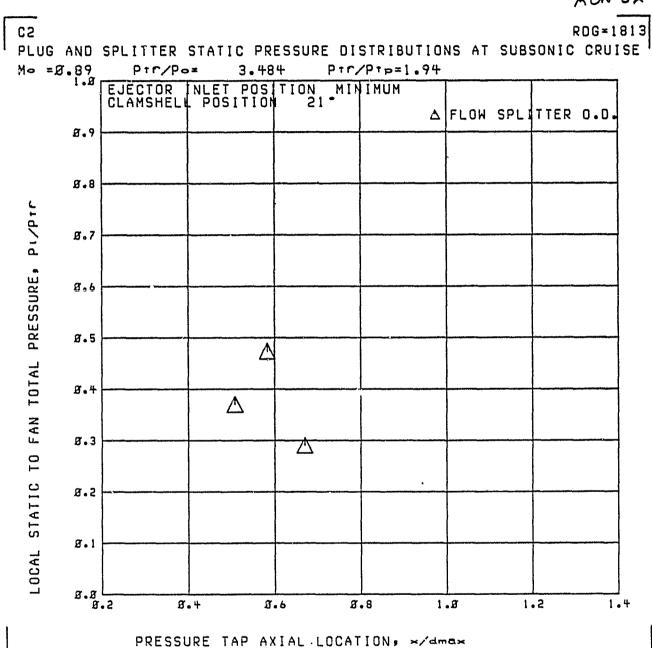
RUN 32

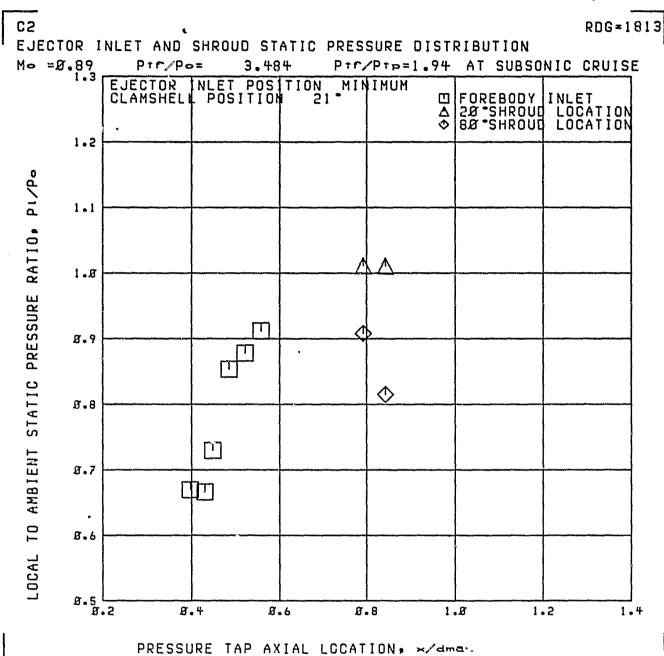


RUN 32



RUN 32





RUN 32

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RUN 32

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RDG=1814 **C2** EJECTOR INLET AND SHROUD STATIC PRESSURE DISTRIBUTION Mo =Ø.89 Ptc/Ptp=1.98 Ptr/Po= 4.511 AT SUBSONIC CRUISE EJECTOR INLET POSITION MINIMUM CLAMSHELL POSITION 21 □ FOREBODY INLET

Δ 20 SHROUD LOCATION

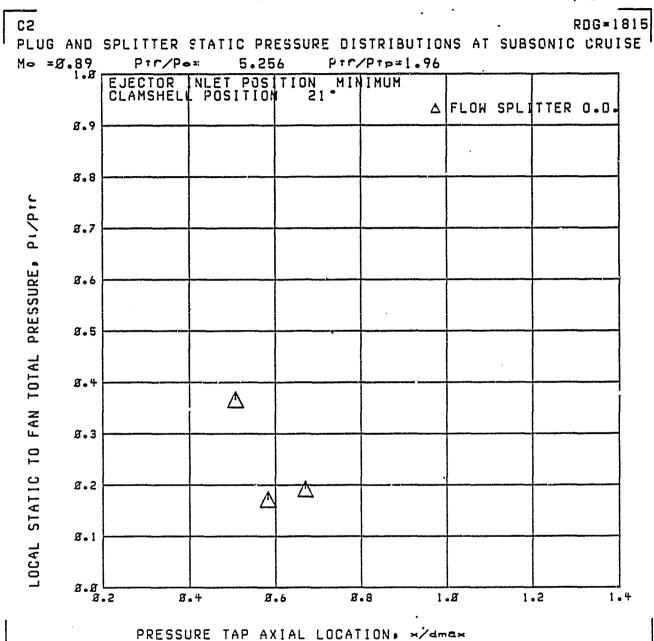
♦ 80 SHROUD LOCATION 1.2 LOGAL TO AMBIENT STATIC PRESSURE RATIO, PIZPO 1.1 1.8 Ø.9 \Diamond Ø.8 8.7 Ø.6 8.5 L 8.6 8.8 1.8 1.2 8.4

PRESSURE TAP AXIAL LOCATION, x/dmax

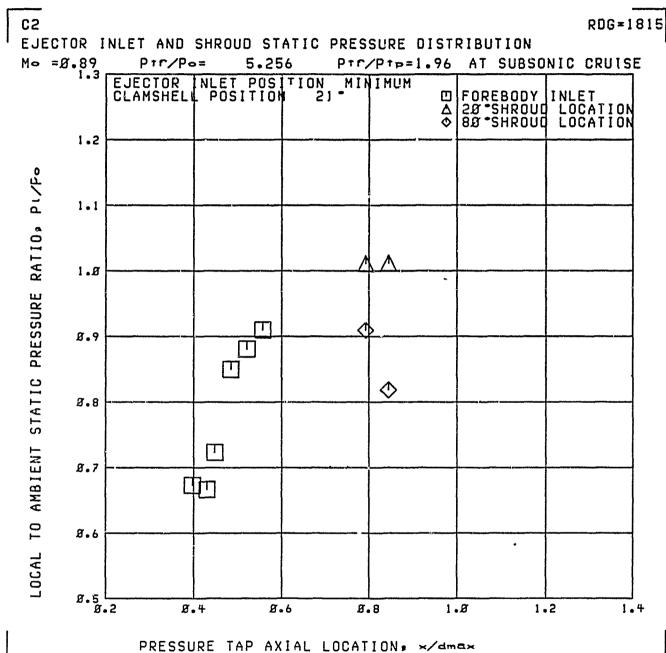
RUN 32

o =	Ø.89 1.8	P+r/F		5.25		P+C/P++ MINIMU		Γ			
		EJECTOR CLAMSHE	LL"PÖ	SITIO	TION 21	•		PRIMA FLOW	RY F	r në	
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RUN 32



RUN 32

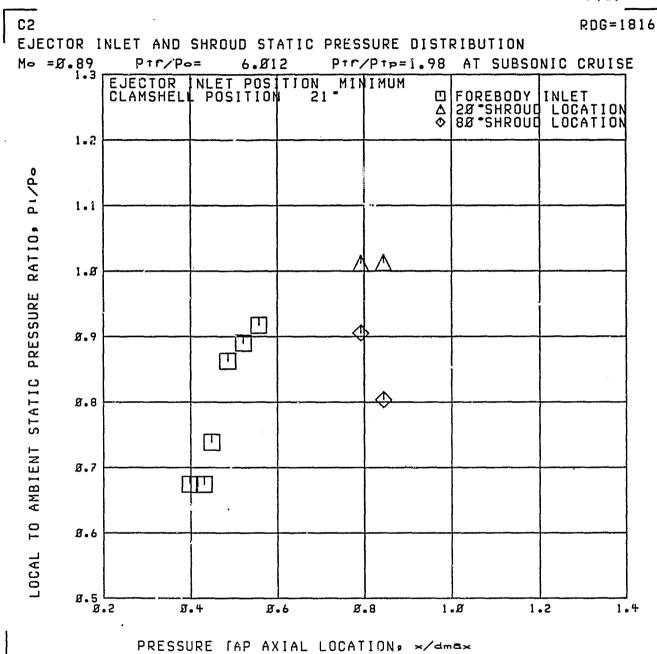


RUN 32

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RUN 32

RDG=1816 CS PLUG AND SPLITTER STATIC PRESSURE DISTRIBUTIONS AT SUBSONIC CRUISE M- =Ø.89 Ptr/Ptp=1.98 Ptr/Po= 6.812 EJECTOR INLET POSITION MINIMUM CLAMSHELL POSITION 21 A FLOW SPLITTER O.D. 8.9 Ø.8 LOCAL STATIC TO FAN TOTAL PRESSURE, PIZPIT 2.7 8.6 Ø.5 8.4 \triangle Ø.3 8.2 Δ 8.1 8.gL 1.4 8.4 8.6 8.8 1.2 1.2 PRESSURE TAP AXIAL LOCATION: x/dmax



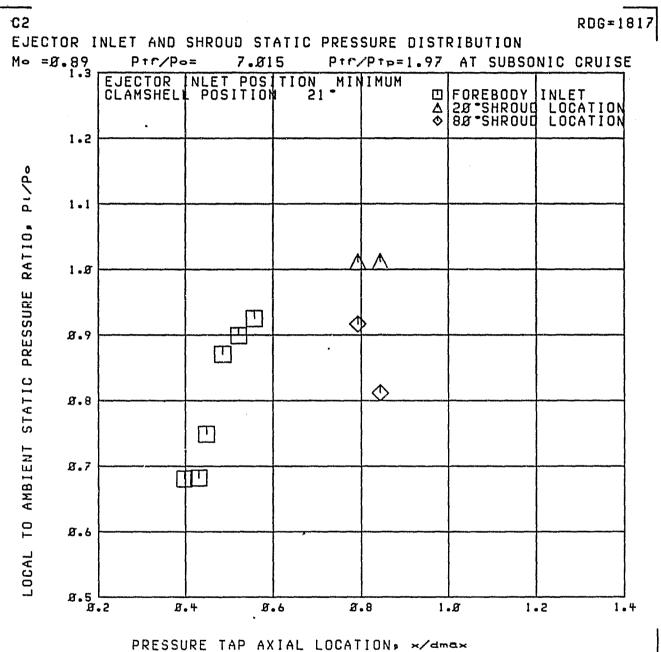
RUN 32

	AND Ø.89	SPLITTER P*r/Pe		PRE		DISTRIE		NS AT SU		CRUIS
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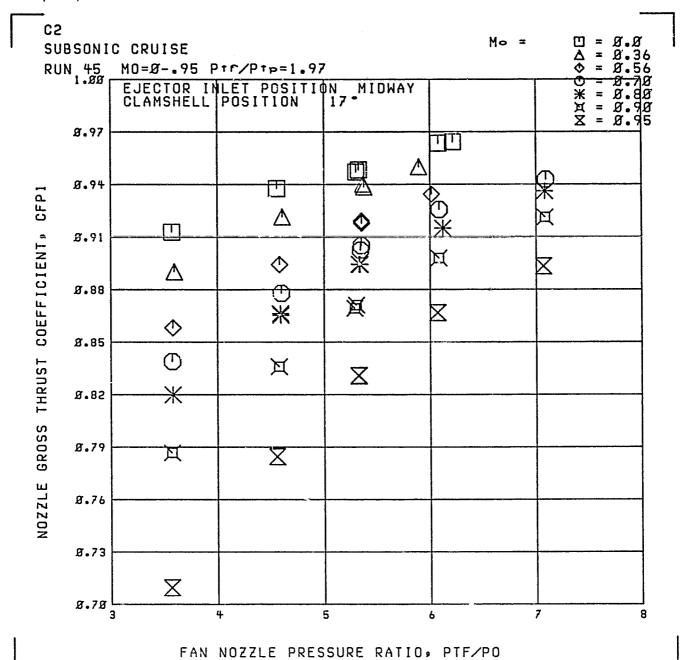
2UN 32

	AND ؕ89	SPLITTER Ptr/F	o x	7.81	5 1	otr/Ptp=		NS AT	SUB	SONIC	CRUI
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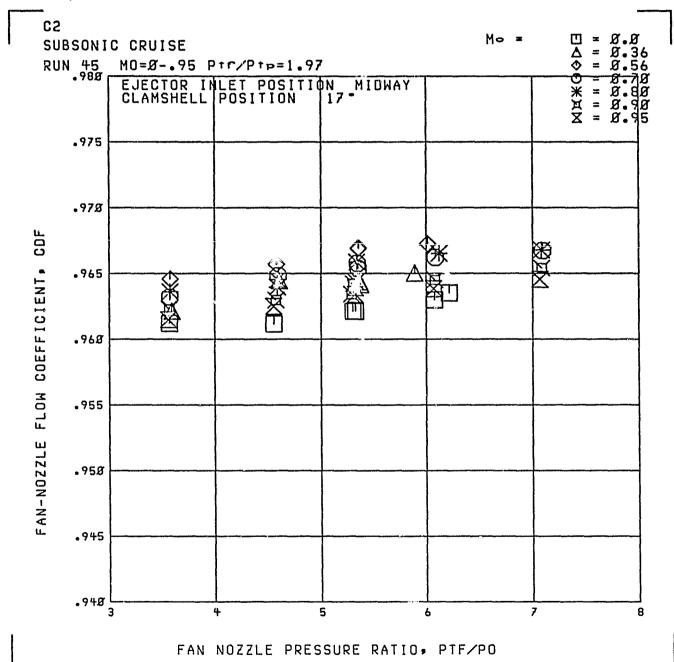




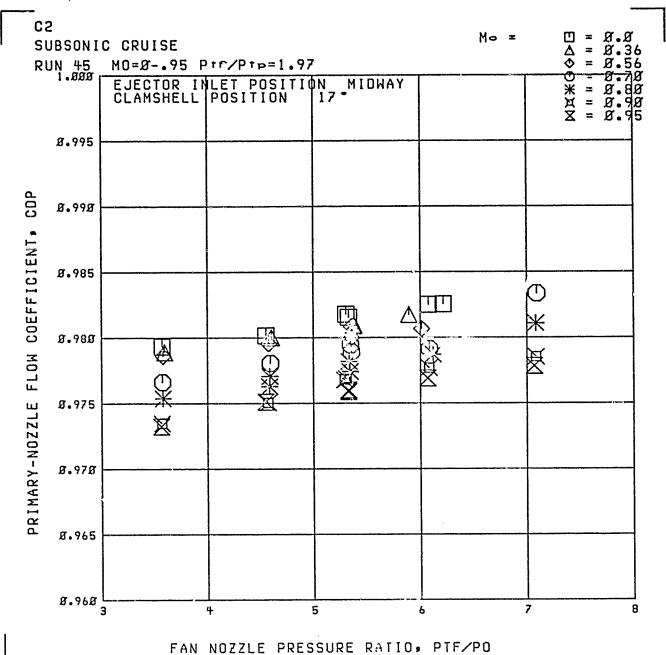
RDG 2224-2264



RDG. 2224-2264

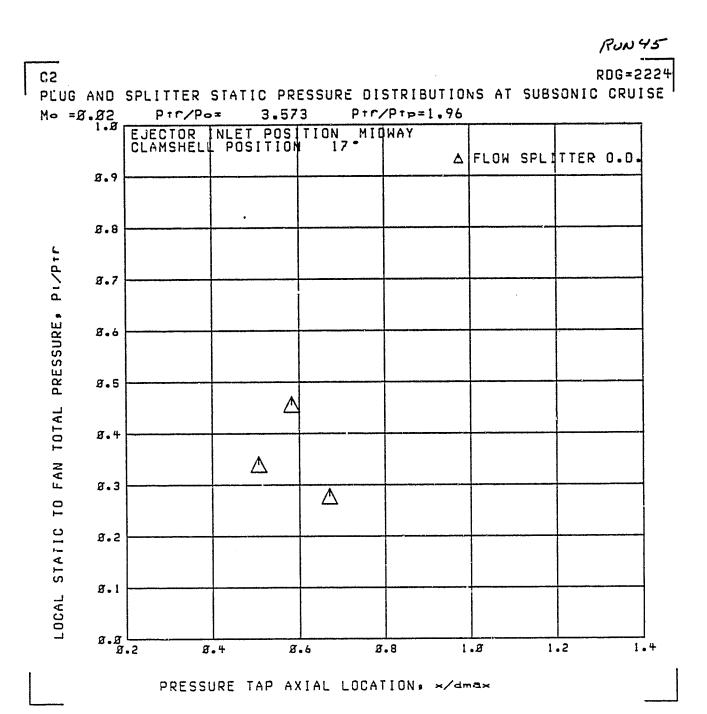


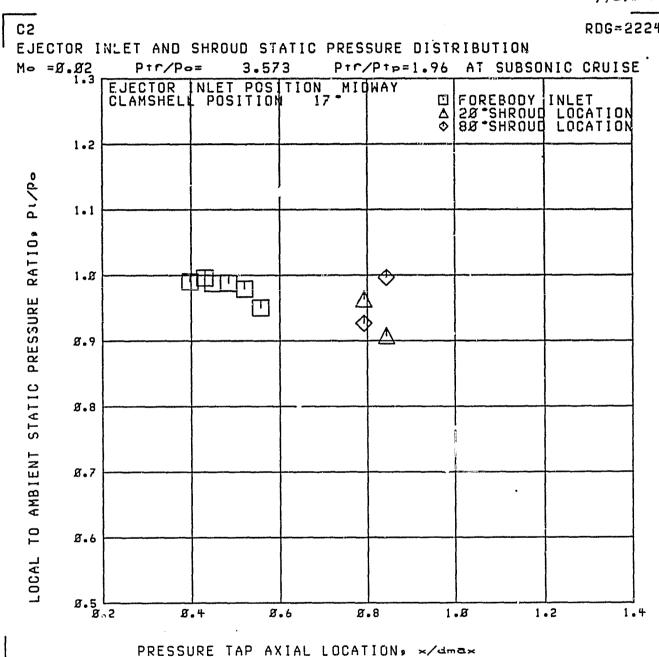
ROG 2224-2264



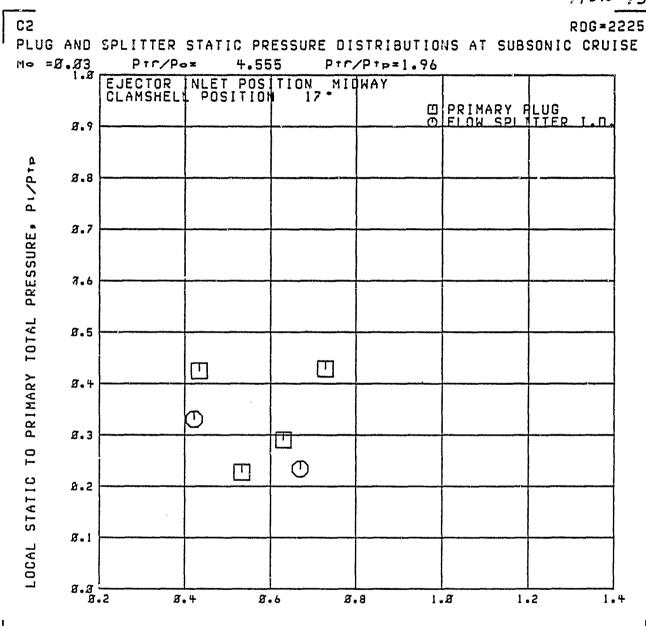
CS RDG=2224 PLUG AND SPLITTER STATIC PRESSURE DISTRIBUTIONS AT SUBSONIC CRUISE Mo =Ø.Ø2 Ptr/Po= 3.573 Ptr/Ptp=1.96 EJECTOR NLET POSITION MIDWAY CLAMSHELL POSITION 17 PRIMARY FLUG OF OW SPLITTER Ø.9 LOCAL STATIC TO PRIMARY TOTAL PRESSURE, PIZPTP Ø.8 Ø.7 2.6 Ø.5 8.4 ø.3 0 8.2 Ø.1 8.8 L 1.4 8.4 8.6 Ø.8 1.0 1.2

PRESSURE TAP AXIAL LOCATION: x/dmax





AUN 45



PRESSURE TAP AXIAL LOCATION: x/dmax

	4NU 3.83 1.8	SPLITTER PTC/P	o= "	+.55	5 F	Ptr/Ptp=		10 CM	300.	SONIC	
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CS RDG=2225 EJECTOR INLET AND SHROUD STATIC PRESSURE DISTRIBUTION Ptr/Po= 4.555 Ptr/Ptp=1.96 AT SUBSONIC CRUISE EJECTOR NIET POSITION MIDWAY CLAMSHELL POSITION 17 FOREBODY INLET 20°SHROUD LOCATION 80°SHROUD LOCATION $\Delta \Phi$ 1.2 P1/Po 1.1 LOCAL TO AMBIENT STATIC PRESSURE RATIO, 1.8 8.9 Ø.8 Ø.7 2.6 Ø.5 L. 1.4 1.2 8.4 8.6 Ø.8 1.8

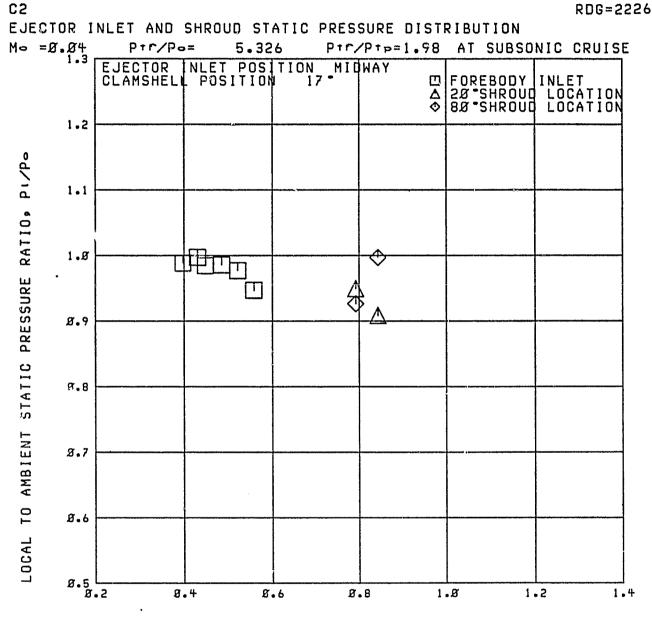
PRESSURE TAP AXIAL LOCATION: */dmax

RUN 45

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CS											RDG=2	226
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RDG=2226



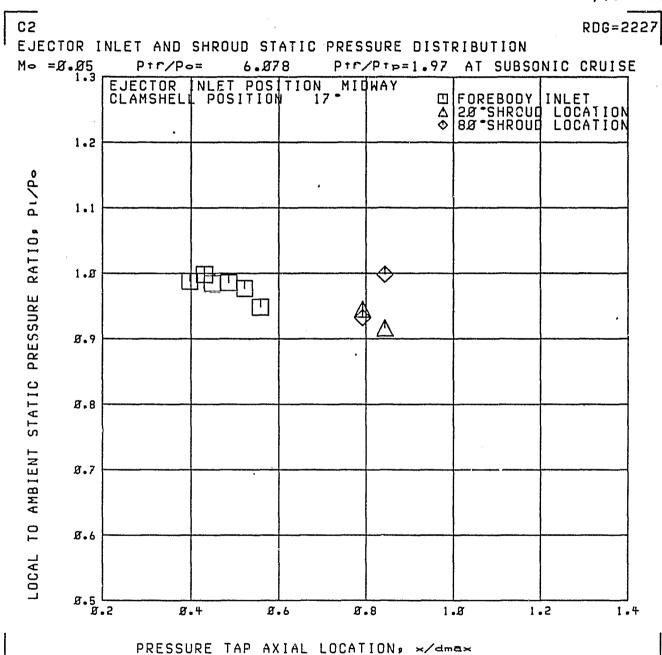
PRESSURE TAP AXIAL LOCATION, x/dmax

RDG=2227 CS PLUG AND SPLITTER STATIC PRESSURE DISTRIBUTIONS AT SUBSONIC CRUISE Mo =Ø.Ø5 Ptr/Po= 6.078 Ptr/Ptp=1.97 EJECTOR INLET POSITION MIDWAY CLAMSHELL POSITION 17 PRIMARY ALUG OFIOW SPITTER I.D. 8.9 PRESSURE, PIZPTP Ø.8 8.7 8.6 LOCAL STATIC TO PRIMARY TOTAL Ø.5 8.4 \bigcirc П Ø.3 (1) Ø.2 Ø. 1 g.g. 8.4 B.6 8.8 1.3 1.2 1.4

PRESSURE TAP AXIAL LOCATION: x/dmax

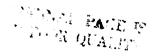
CS RDG=2227 PLUG AND SPLITTER STATIC PRESSURE DISTRIBUTIONS AT SUBSONIC CRUISE Mo =Ø.Ø5 Ptr/Po= 6.078 Ptr/Ptp=1.97 EJECTOR INLET POSITION MIDWAY CLAMSHELL POSITION 17 A FLOW SPLITTER O.D. Ø.9 ø.8 LOCAL STATIC TO FAN TOTAL PRESSURE, PIZPIT Ø.7 Ø.6 **3.**5 Ø.4 Δ Ø.3 Ø.2 Δ **3.**1 ø.g L_ 1.2 1.4 8.4 8.6 Ø.8 1.8

PRESSURE TAP AXIAL LOCATION, x/dmax

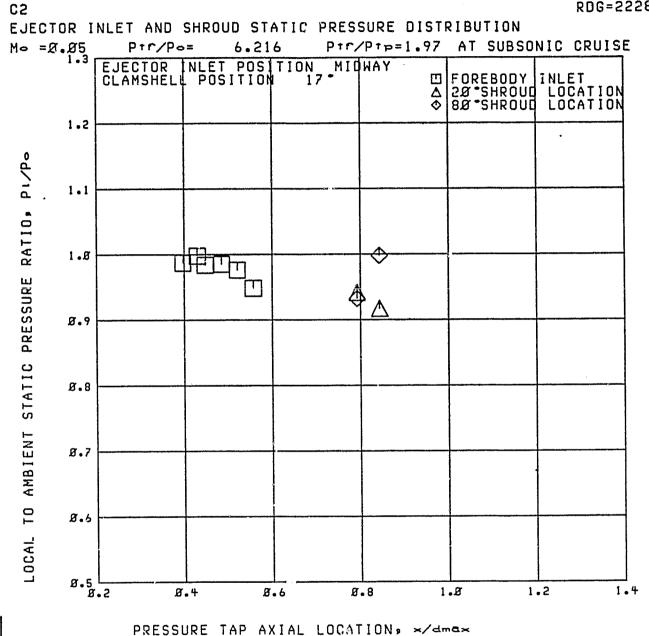


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CS RDG=2228 PLUG AND SPLITTER STATIC PRESSURE DISTRIBUTIONS AT SUBSONIC CRUISE Ptr/Po= 6.216 Ptr/Ptp=1.97 EJECTOR NLET POSITION MIDWAY CLAMSHELL POSITION 17 AIFLOW SPLITTER O.D. Ø.9 Ø.8 PRESSURE, PIZPIF 8.7 8.6 Ø.5 TO FAN TOTAL 8.4 8.3 LOCAL STATIC ø.2 Δ Ø.1 a.a __ 2.4 B.6 ø.8 :.8 1.2 PRESSURE TAP AXIAL LOCATION: x/dmax



RDG=2228



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		EJECTOR CLAMSHEL	Pos	ITIO	17	MIDWAY	9	PRIMARY	g <u>rug</u>	
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RUN 45

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RDG=2232 C2 EJECTOR INLET AND SHROUD STATIC PRESSURE DISTRIBUTION Mo =Ø.95 Ptr/Po= 5.323 PIC/PIP=1.97 AT SUBSONIC CRUISE EJECTOR NLET POSITION MIDWAY CLAMSHELL POSITION 17 □ FOREBODY INLET

Δ 20 SHROUD LOCATION

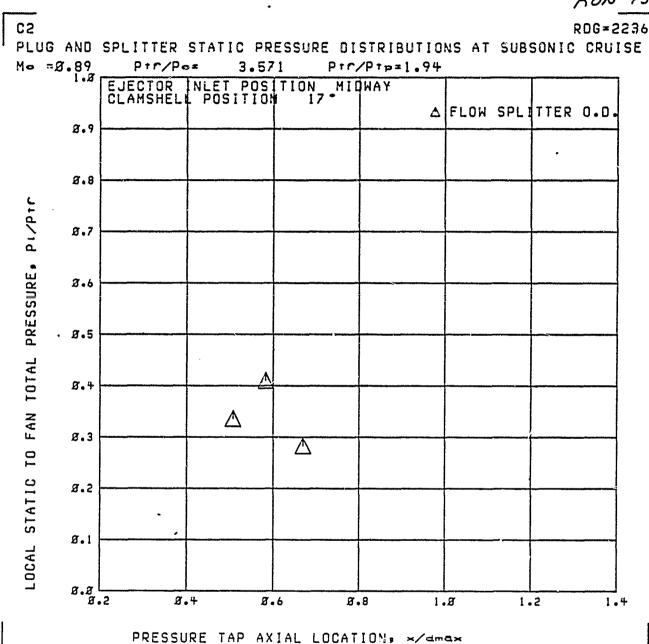
♦ 80 SHROUD LOCATION 1.2 P1/Po 1.1 RATIO. 1.8 PRESSURE Ø.9 STATIC Ø.8 LOCAL TO AMBIENT Ø.7 Ø.6 8.5 L Ø.4 Ø.6 Ø.8 1.8 1.2 1.4

PRESSURE TAP AXIAL LOCATION, x/dmax

KUN 45

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RUN 45

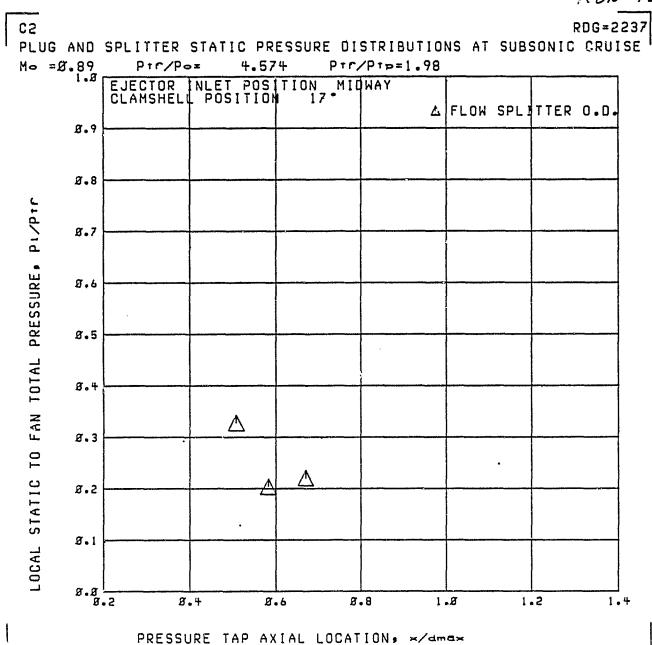


RDG=2236 CS EJECTOR INLET AND SHROUD STATIC PRESSURE DISTRIBUTION Mo =Ø.89 Ptr/Po= 3.571 Ptr/Ptp=1.94 AT SUBSONIC CRUISE EJECTOR INLET POSÍTION MIDWAY CLAMSHELL POSITION 17 FOREBODY INLET 20 SHROUD LOCATION 80 SHROUD LOCATION 凹 $\Delta \Phi$ 1.2 PI/Po 1.1 RATIO. Ш 1.8 LOCAL TO AMBIENT STATIC PRESSURE Ø.9 8.8 8.7 8.6 Ø.5 L Ø.4 8.6 Ø.8 1.0 1.4 1.2

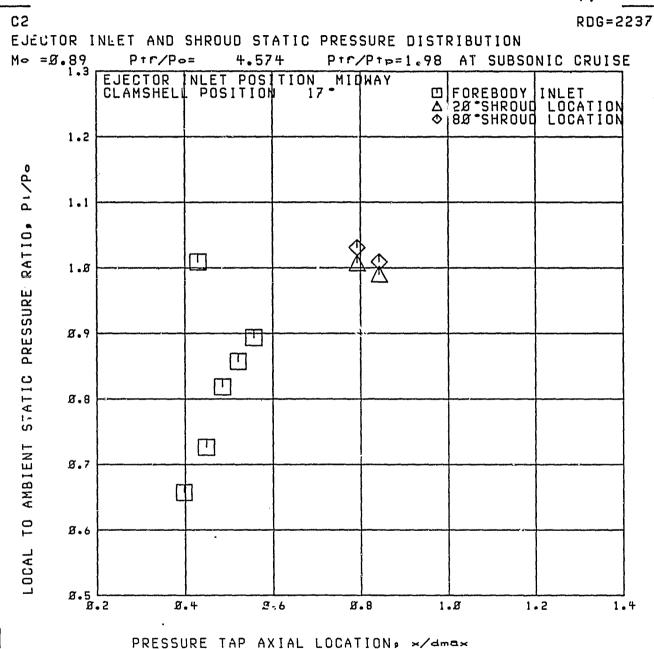
RUN 45

C2 PLUG Mo = £	7.87	SPLITTER PTC/Pc		PRE			TRIBU Ptp=1		NS AT	SUB		S≖SOS IURO IURO	SE
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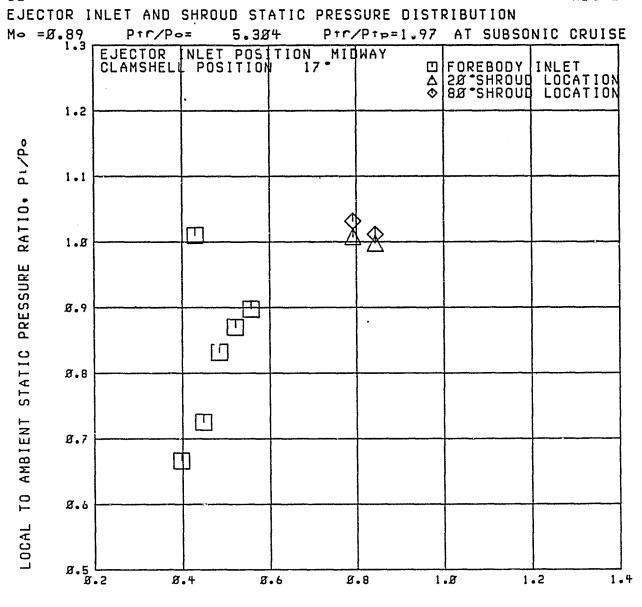






RDG=2238 02 PLUG AND SPLITTER STATIC PRESSURE DISTRIBUTIONS AT SUBSONIC CRUISE Mo =Ø.89 Ptr/Po= Ptr/Ptp=1.97 5.304 EJECTOR INLET POSITION MIDWAY CLAMSHELL POSITION 17 M PRIMARY FLUG OFLOW SPLITTER 8.9 LOCAL STATIC TO PRIMARY TOTAL PRESSURE, PIZPTP 8.8 8.7 8.6 ø., 5 8.4 ø.3 П 0 8.2 8.1 ø.ø ∟ Ø.2 1.1 8.4 8.6 ø.8 1.8 1.2

C2 PLUG AND SPLITTER STATIC PRESSURE DISTRIBUTIONS AT SUBSONIC CRUISE Mo =Ø.89 1.8 Ptr/Po= 5.384 Ptr/Ptp=1.97 EJECTOR NLET POSITION MIDWAY CLAMSHELL POSITION 17 A FLOW SPLITTER O.D. 8.9 Ø.8 PRESSURE, PIZPIF Ø.7 8.6 Ø.5 TOTAL Ø.4 LOCAL STATIC TO FAN Ø.3 9.2 \triangle Λ 8.1 8.8 L 1.2 8.4 8.6 Ø.8 1.8 1.4

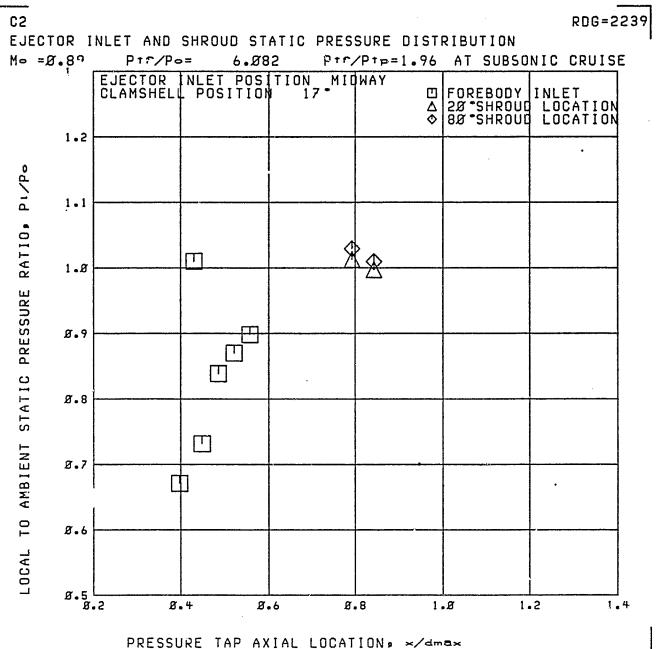


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RUN 45

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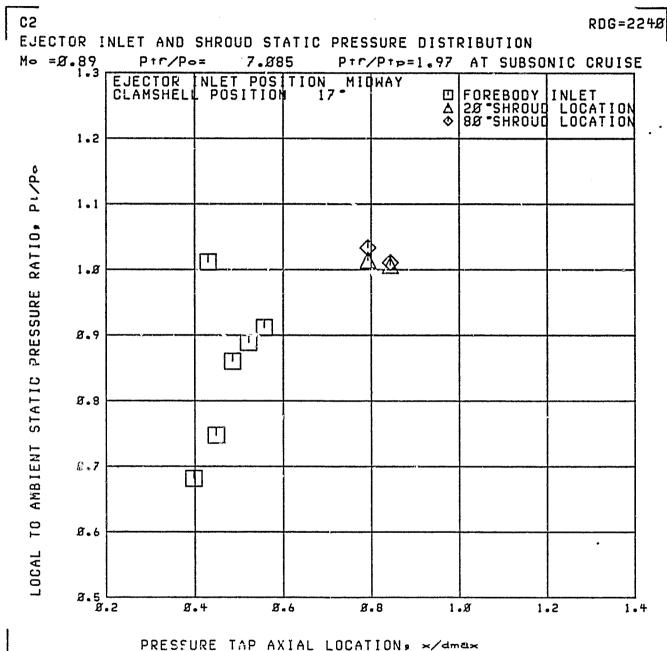


C2 PLU	G AND	SPLITTER	STATIC	PRESSURE	: DISTRIE	BUTIO	NS AT SUB	RDG=2	
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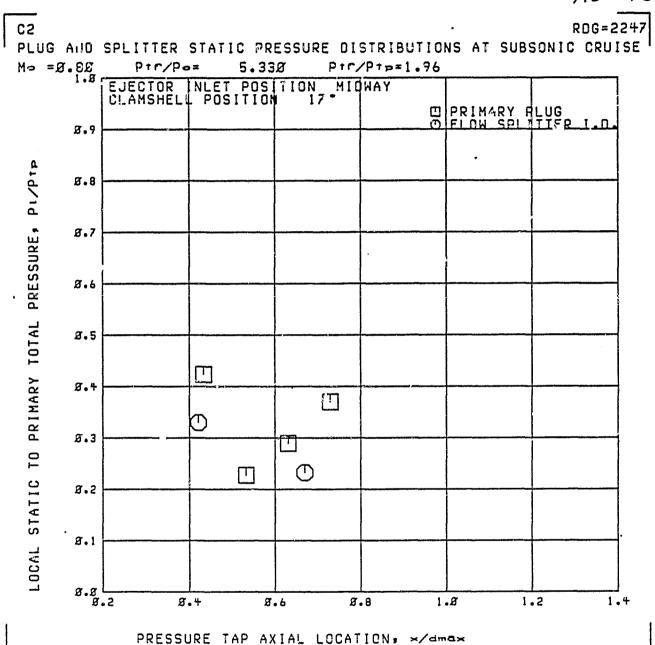
RUN 45

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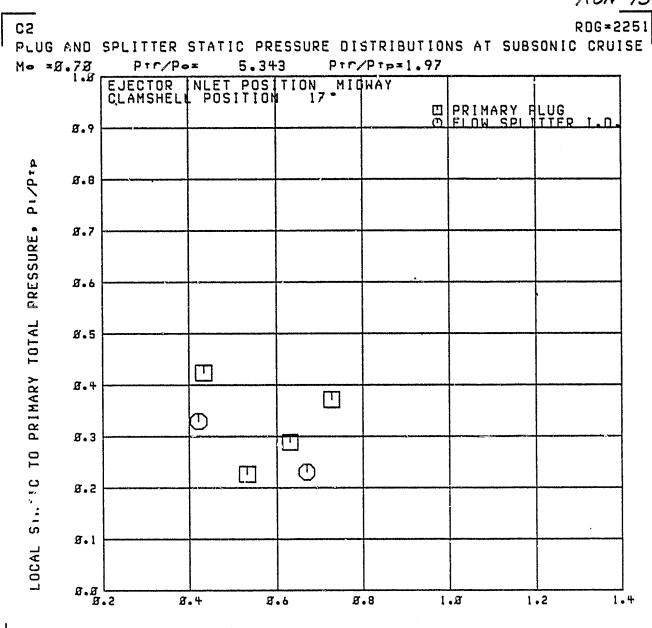
RUN 45



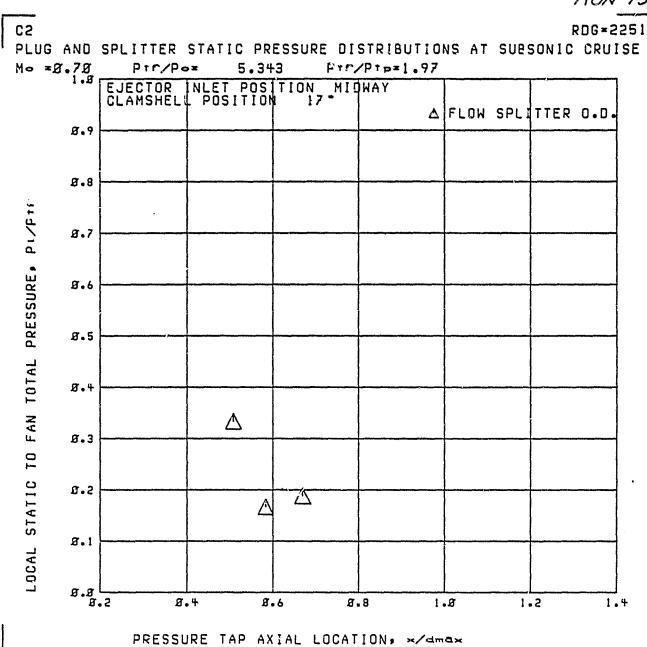
RDG=2247 C2 PLUG AND SPLITTER STATIC PRESSURE DISTRIBUTIONS AT SUBSONIC CRUISE Mo =Ø.8Ø Ptr/Po= 5.33Ø Ptr/Ptp=1.96 EJECTOR INLET POSITION MIDWAY CLAMSHELL POSITION 17 A FLOW SPLITTER O.D. Ø.9 Ø.8 PRESSURE, PL/PIF Ø.7 8.6 Ø.5 TOTAL 8.4 LOCAL STATIC TO FAN \triangle ø.3 Ø.2 Ø.1 8.8 L 8.8 1.2 8.4 8.6 PRESSURE TAP AXIAL LOCATION, x/dmax

CS RDG=2247 SUBSTOR INLET AND SHROUD STATIC PRESSURE DISTRIBUTION 1.3 =8.8Ø Ptr/Ptp=1.96 AT SUBSONIC CRUISE Ptr/Po= 5.33Ø EJECTOR INLET POSITION MIDWAY
C AMSHELL POSITION 17 FOREBODY INLET 20°5HROUD LOCATION 80°5HROUD LOCATION $\overline{\Delta}$ 1.2 LOCAL TO AMBIENT STATIC PRESSURE RATIO, PL/Po 1.1 Ш 1.8 Ø.9 Ø.8 Ø.7 Ø.6 Ø.5 L 1.4 Ø.4 8.6 8.8 1.8 1.2 PRESSURE TAP AXIAL LOCATION: x/dmax

187



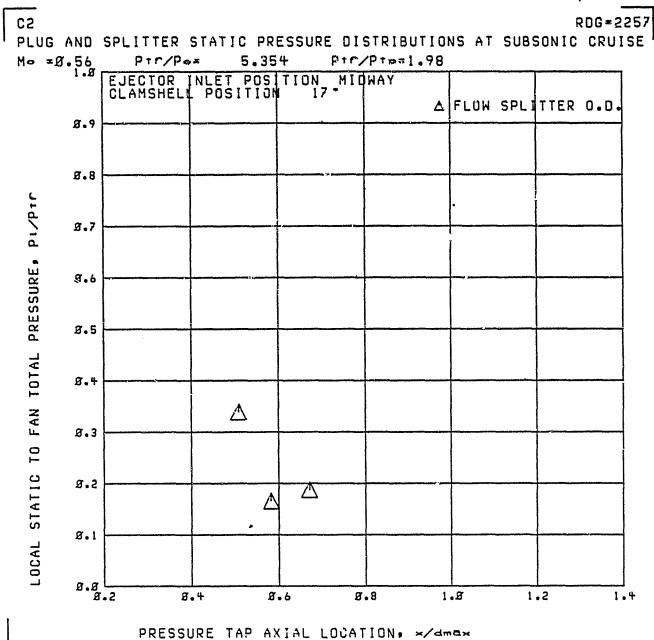
RUN 45



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PUN 45

CS RDG=2257 EJECTOR INLET AND SHROUD STATIC PRESSURE DISTRIBUTION Mo =Ø.56 Ptr/Po= 5.354 Ptr/Ptp=1.98 AT SUBSONIC CRUISE EJECTOR NLET POSITION MIDWAY CLAMSHELL POSITION 17 FOREBODY 2Ø SHROUD 8Ø SHROUD INLET LOCATION LOCATION 4 1.2 LOCAL TO AMBIENT STATIC PRESSURE RATIO, PI/P& 1.1 1.0 Δ B.9 Ø.8 A.7 8.6 8.5 L 8.4 Ø.6 Ø.8 1.8 1.2 1.4 PRESSURE TAP AXIAL LOCATION, x/dmax



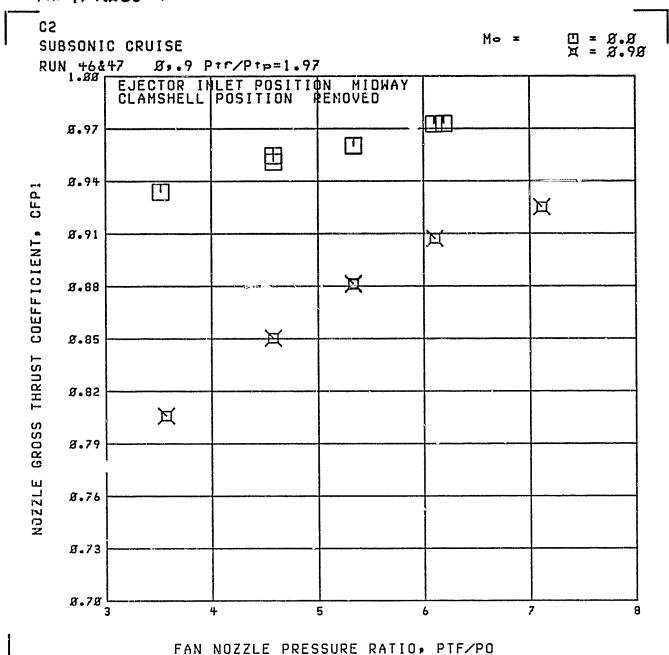
RUN 45

RDG=2262 CS PLUG AND SPLITTER STATIC PRESSURE DISTRIBUTIONS AT SUBSONIC CRUISE Mo =Ø.36 Ptr/Ptp=1.98 Ptr/Po= 5.367 EJECTOR INLET POSITION MIDWAY CLAMSHELL POSITION 17. PRIMARY FLUG O FLOW SPITTER Ø.9 LOCAL STATIC TO PRIMARY TOTAL PRESSURE, PIZPTP 8.8 8.7 Ø.6 Ø.5 Ш 8.4 (1) Ø.3 0 Ø.2 Ø. 1 8.g 8.2 1.2 1.4 8.4 8.6 Ø.8

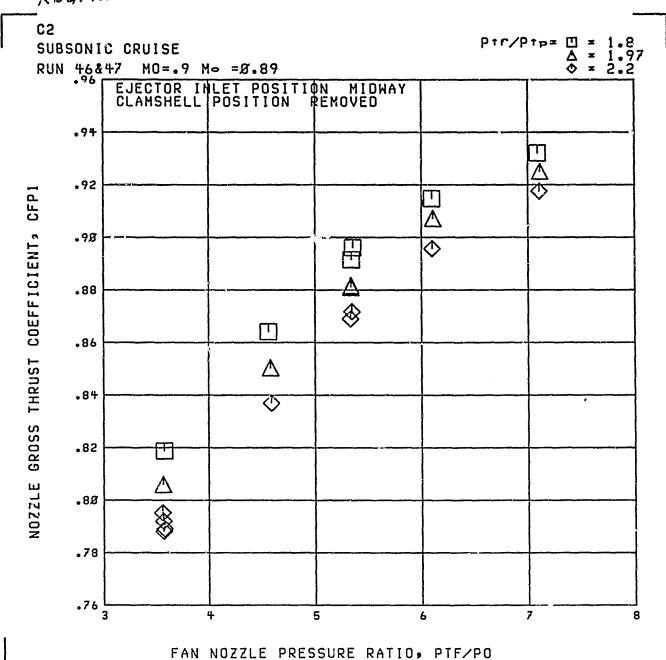
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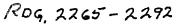
RDG=2262 CS EJECTOR INLET AND SHROUD STATIC PRESSURE DISTRIBUTION Ptr/Po= 5.367 Ptr/Ptp=1.98 AT SUBSONIC CRUISE EJECTOR INLET POSITION MICHAY CLAMSHELL POSITION 17 FOREBODY INLET 20 SHROUD LOCATION 80 SHROUD LOCATION 1.2 RATIO, FLZPo 1.1 1.8 TO AMBIENT STATIC PRESSURE П Ø.9 Ø.8 Ø.7 B.6 ø.5 ∟ 8.8 1.2 1.4 8.6 Ø.8 1.8

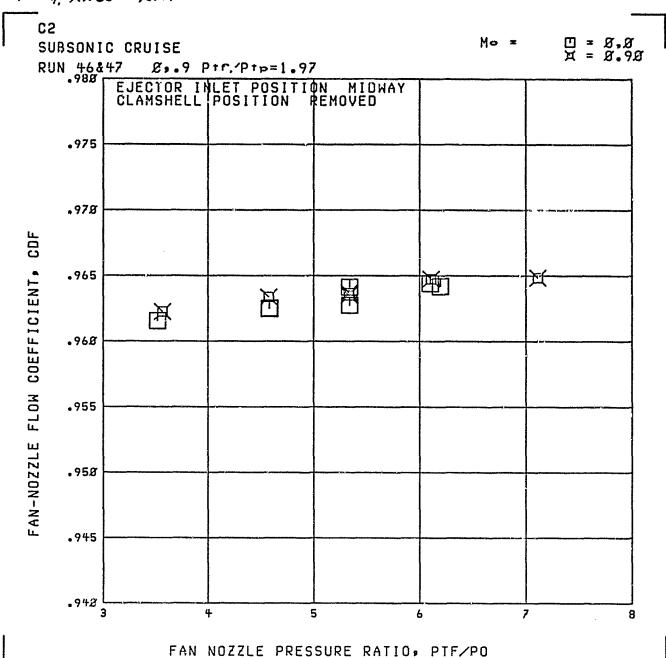
ROG. 2265-2292

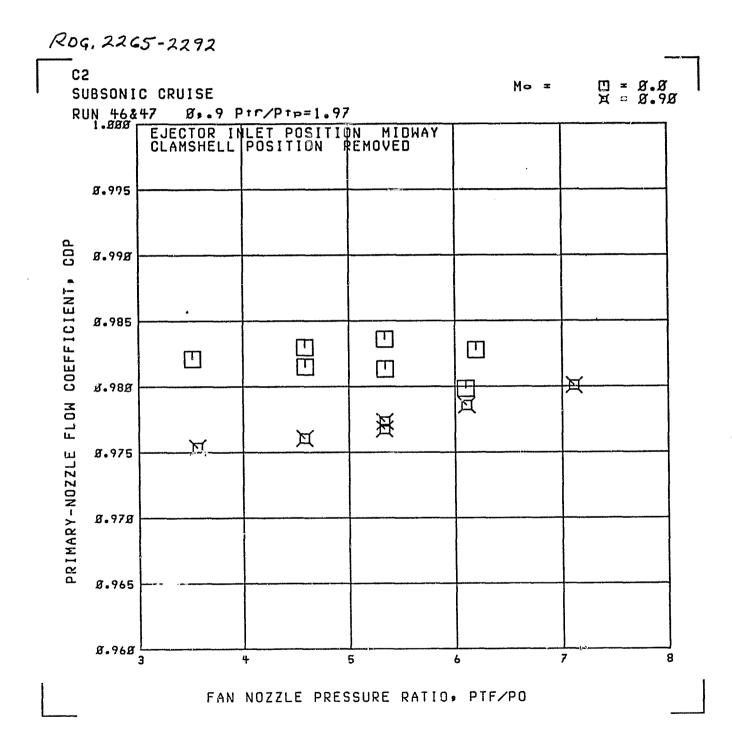


Rog. 2265 - 2292

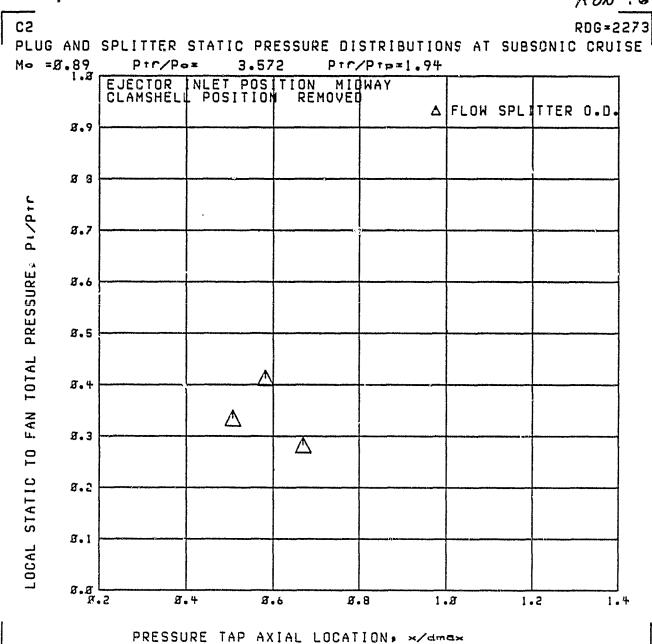






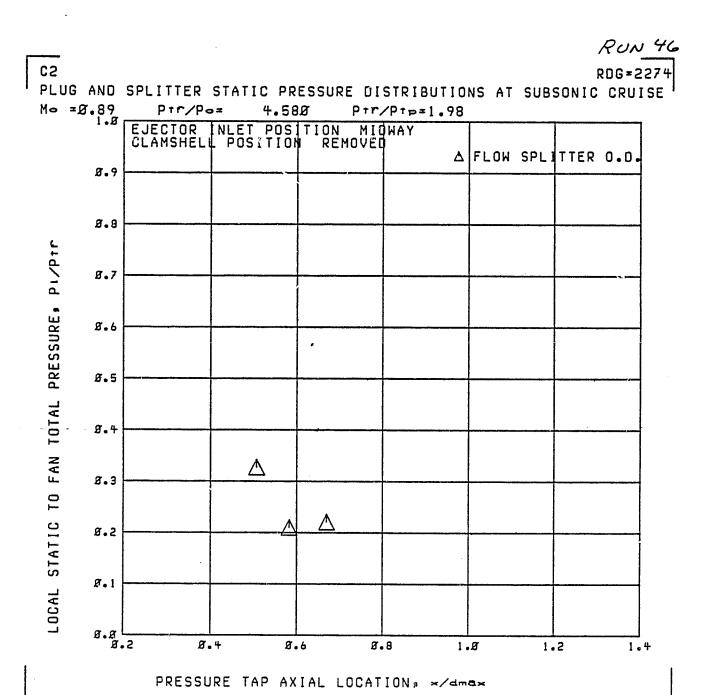


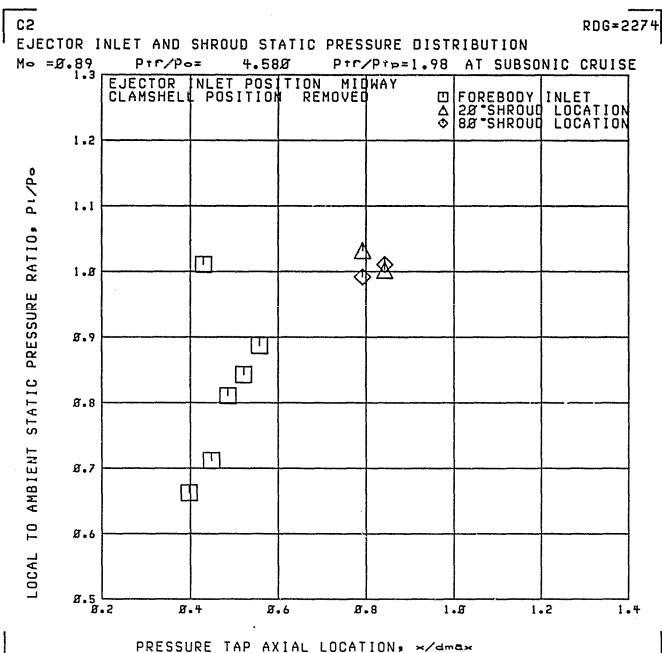
RUN 46



CS RDG=2273 EJECTOR INLET AND SHROUD STATIC PRESSURE DISTRIBUTION Mo =Ø.89 3.572 Ptr/Ptp=1.94 AT SUBSONIC CRUISE EJECTOR INLET POSITION MICHAY CLAMSHELL POSITION FOREBODY INLET 20 SHROUD LOCATION 80 SHROUD LOCATION 日本の 1.2 1.1 STATIC PRESSURE RATIO. Ш 1.8 8.9 8.8 LOCAL TO AMBIENT 3.7 8.6 8.5 L 8.4 8.6 Ø.8 1.0 1.2 1.4

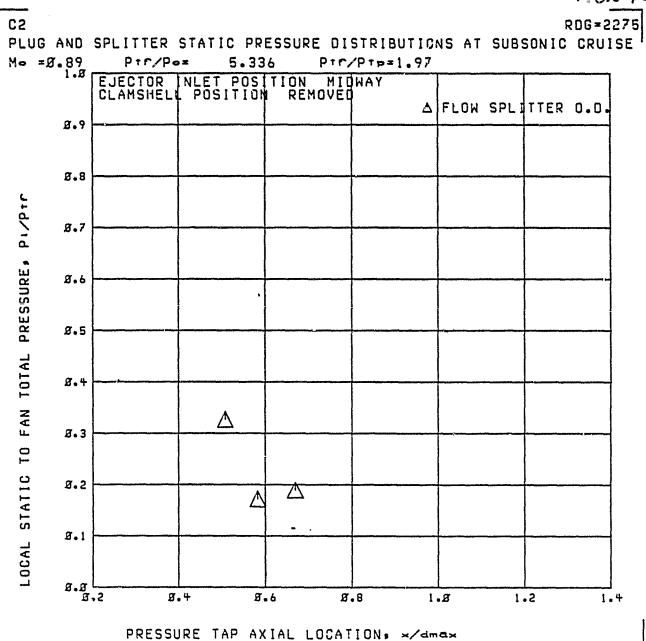
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RDG = 2275 CS PLUG AND SPLITTER STATIC PRESSURE DISTRIBUTIONS AT SUBSONIC CRUISE Ptr/Ptp=1.97 Ptr/Po= 5.336 EJECTOR INLET POSITION MIDWAY CLAMSHELL POSITION REMOVED PRIMARY FLUG Ø.9 LOCAL STATIC TO PRIMARY TOTAL PRESSURE, PIZPTP Ø.8 Ø.7 Ø.6 ø.5 8.4 M ø.3 (1) ø.2 8.1 g.g. 1.4 Ø.4 Ø.6 8.8 1.8 1.2 PRESSURE TAP AXIAL LOCATION: x/dmax

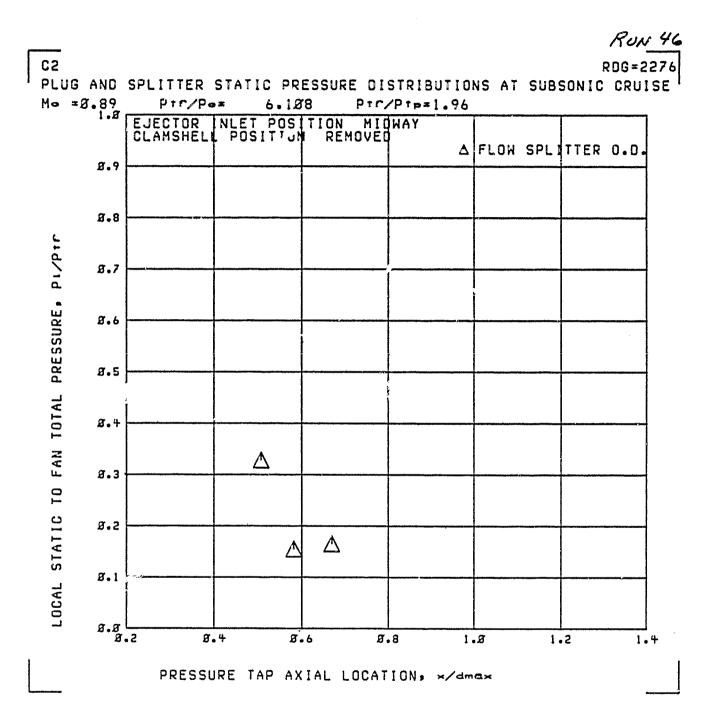




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RDG=2275 CS EJECTOR INLET AND SHROUD STATIC PRESSURE DISTRIBUTION Ptr/Ptp=1.97 AT SUBSONIC CRUISE 5.336 EJECTOR INLET POSITION MIDWAY CLAMSHELL FOSITION REMOVED FOREBODY INLET 20 SHROUD LOCATION BO SHROUD LOCATION 日本 1.2 TO AMBIENT STATIC PRESSURE RATIO, PI/Po 1.1 Ш 1.8 8.9 Ø.8 Ш Ø.7 8.6 8.5 F 8.4 8.6 8.8 1.8 1.2 1.4

RDG=2276 CS PLUG AND SPLITTER STATIC PRESSURE DISTRIBUTIONS AT SUBSONIC CRUISE Mo =Ø.89 Ptr/Ptp=1.96 Ptr/Po= 6.138 EJECTOR INLET POSITION MIDWAY CLAMSHELL POSITION REMOVED PRIMARY FLUG OFIOW SPITTER I.O. Ø.9 PRESSURE, PIZPTP Ø.8 Ø.7 8.6 TO PRIMARY TOTAL ø.5 8.4 Ш Ø.3 0 LOCAL STATIC Ø.2 ø.1 8.8 1.4 8.4 Ø.6 Ø.8 1.5 1.2



RDG=2276 CS EJECTOR INLET AND SHROUD STATIC PRESSURE DISTRIBUTION Mo =Ø.89 Ptr/Po= P+r/P+p=1.96 AT SUBSONIC CRUISE 6.188 EJECTOR INLET POSITION MID CLAMSHELL POSITION REMOVED MIDWAY FOREBODY INLET
28 SHROUD LOCATION
88 SHROUD LOCATION Œ ΔΦ 1.2 RATIO, PL/Po 1.1 Ш 1.8 LOCAL TO AMBIENT STATIC PRESSURE 8.9 Ø.8 Ø.7 Ø.6 Ø.5 L Ø.8 1.8 1.2 1.4 8.4 8.6 PRESSURE TAP AXIAL LOCATION, x/dmax

RUN 46

	AND 0.90 1.0	SPLITTER Ptr/P		7.11		ISTRIBU] ~/P†p=1.		NS AT SUB	SONIC C	RUI
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RUN 46

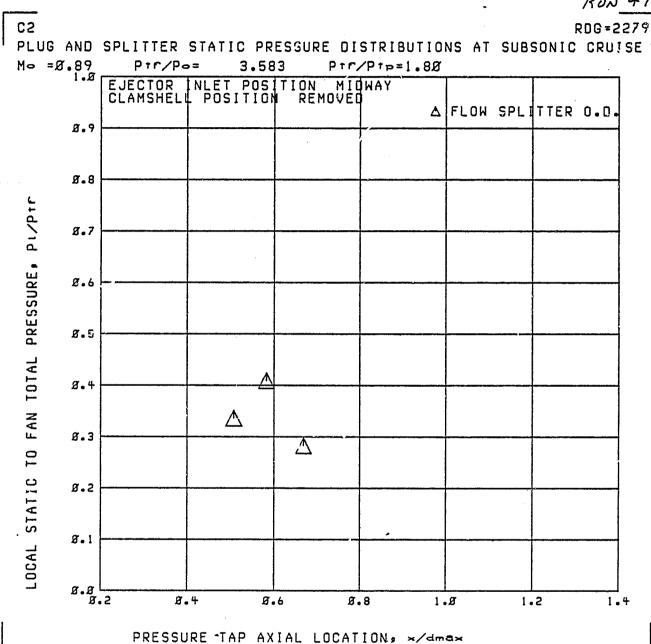
CS PLUG AND SPLITTER STATIC PRESSURE DISTRIBUTIONS AT SUBSONIC CRUISE Mo =8.98 Ptr/Po= 7.115 Ptr/Ptp=1.97 LIECTOR NET POSITION MIDWAY CLAMSHELL POSITION REMOVED A FLOW SPLITTER O.D. 8.9 Ø.8 PRESSURE, PIZPIF 8.7 Ø.6 Ø.5 LOCAL STATIC TO FAN TOTAL Ø.4 Ø.3 ø.2 \triangle Ø. 1 g.g L. 8.4 8.6 Ø.8· 1.8 1.2 1.4 PRESSURE TAP AXIAL LOCATION, x/dmax

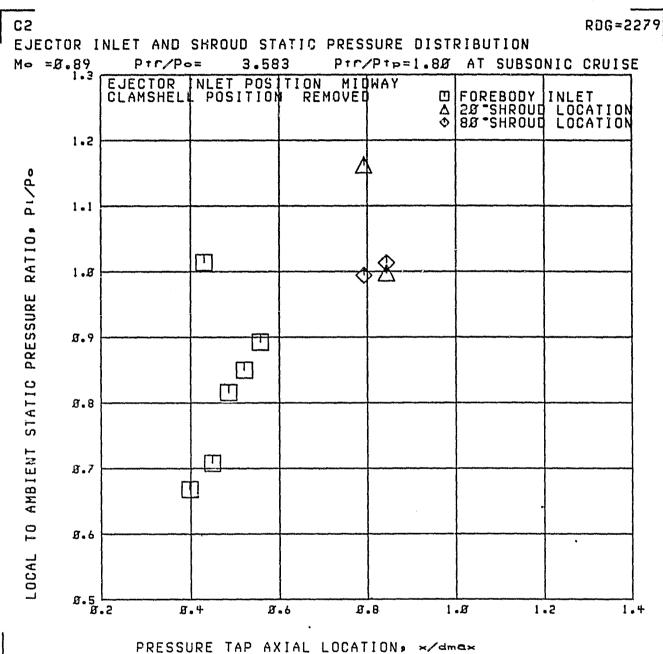
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RUN 47

F	C2 PLUG M• =£		SPLITTER Ptr/Pe		C PR		DISTRI		NS AT SI	UBSONI	RDG=2 C CRUI	279
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RUN 47





12UN 47

CS RDG=228Ø PLUG AND SPLITTER STATIC PRESSURE DISTRIBUTIONS AT SUBSONIC CRUISE Mo =Ø = 89 Ptr/Po= Ptr/Ptp=1.81 4.562 EJECTOR INLET POSITION MIDWAY CLAMSHELL POSITION REMOVED D PRIMARY FLUG O FLOW SPITTER Ø.9 TO PRIMARY TOTAL PRESSURE. PIZPTP 8.8 Ø.7 Ø.6 8.5 Ш 8.4 Ø.3 LOCAL STATIC 8.2 8.1 8.g L 2.4 8.6 ø.8 1.2 1.8 1.4 PRESSURE TAP AXIAL LOCATION . x/dmax

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RDG=228Ø CS PLUG AND SPLITTER STATIC PRESSURE DISTRIBUTIONS AT SUBSONIC CRUISE PTC/Ptp=1.81 M = Ø . 89 PTC/Pox 4.562 EJECTOR INLET POSITION MIDWAY CLAMSHELL POSITION REMOVED A | FLOW SPLITTER O.D. 8.9 Ø.8 LOCAL STATIC TO FAN TOTAL PRESSURE, PIZPIT 8.7 Ø.6 8.5 8.4 ø.3 ø.2 Ø.1 8.8 8.2 1.8 1.2 1.4 8.4 8.6 ø.8

220

RDG=2285 CS EJECTOR INLET AND SHROUD STATIC PRESSURE DISTRIBUTION Mo =Ø.89 1.3 Ptr/Po= Ptr/Ptp=1.81 4.562 AT SUBSONIC CRUISE EJECTOR NLET POSITION MIDWAY CLAMSHELL POSITION REMOVED FOREBODY INLET 20 SHROUD LOCATION BO SHROUD LOCATION ΔΦ 1.2 P1/Po 1.1 RATIO, П 1.8 STATIC PRESSURE Ø. 9 Ø.8 TO AMBIENT П 8.7 8.6 Ø.5 └ Ø.4 ø.8 1.2 8.6 1.0

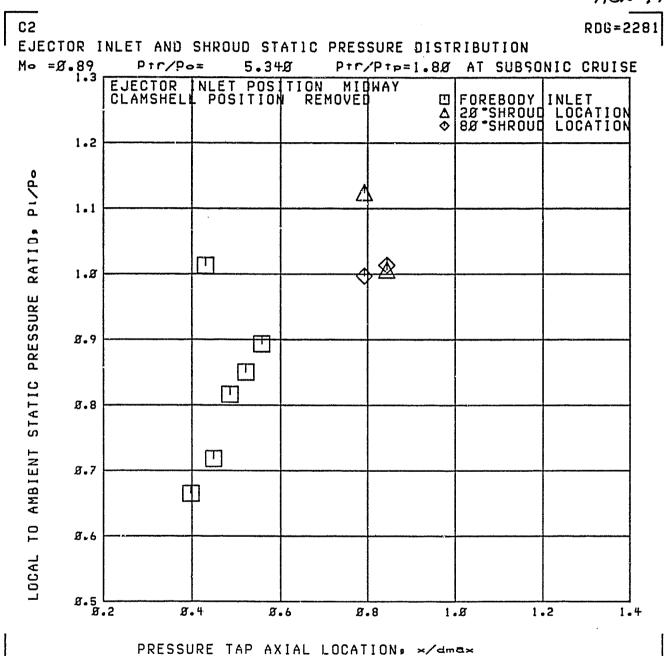
RUN 47

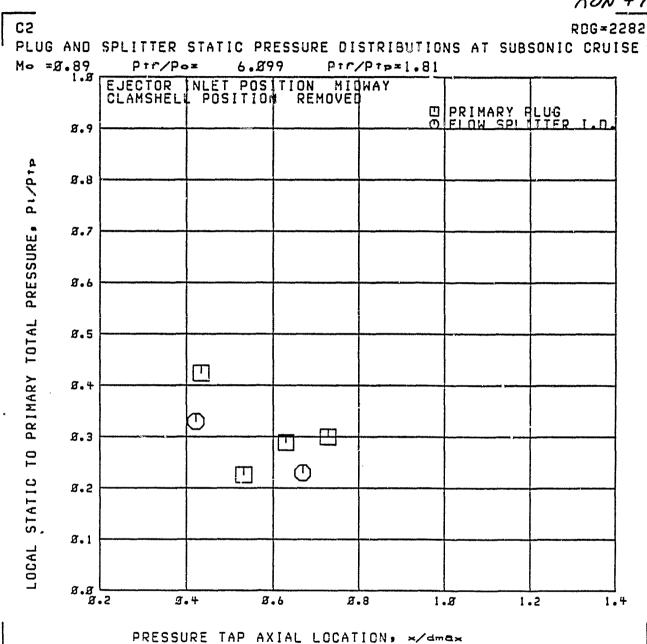
RDG=2281 CS PLUG AND SPLITTER STATIC PRESSURE DISTRIBUTIONS AT SUBSONIC CRUISE. Mo =Ø.89 5.340 Ptr/Ptp=1.88 Ptr/Po= EJECTOR NLET POSITION MICHAY CLAMSHELL POSITION REMOVED PRIMARY FLUG Ø.9 LOCAL STATIC TO PRIMARY TOTAL PRESSURE, PIZPTP Ø.8 Ø.7 8.6 Ø.5 П 8.4 Ø.3 (1) g.2 8.1 8.g 8.2 1.2 8.4 8.6 Ø.8 1.8 1.4 PRESSURE TAP AXIAL LOCATION, x/dmax

RUN 47

C2 PLUG Mo =8		SPLITTER P+r/Pe		PRESSU 34Ø		STRIBU Ptp=1.		NS AT	SUB		 RDG=22 CRUIS
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RUN 47

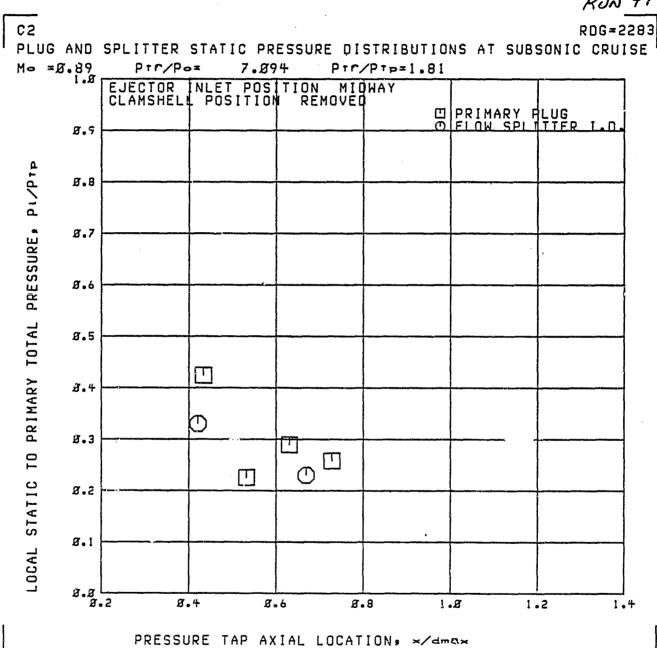




RUN 47

B.9 8.9 8.9 8.8 8.6 8.7 8.6 8.9 8.6 8.1 8.1 8.1 8.1 8.2 8.3	C2 PLUG AND Mo = Ø.89	RDG=228 SPLITTER STATIC PRESSURE DISTRIBUTIONS AT SUBSONIC CRUISI PTC/Po= 6.899 PTC/PTp=1.81
8.8 B.5 B.5 B.5 B.5 B.5 B.5 B.5 B.5 B.5 B.5	1.8	EJECTOR INLET POSITION MICHAY
TO FAN TOTAL PRESSURE, P1/P17 8.8 4.8 7.8 7.8 7.8	Ø.9	,
TO FAN TOTAL PRESSURE. *** *** *** *** *** *** ***		
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RUN 47



RUN 47

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RDG=2283 CS EJECTOR INLET AND SHROUD STATIC PRESSURE DISTRIBUTION $M = \emptyset.89$ Ptr/Po= 7.894 Ptr/Ptp=1.81 AT SUBSONIC CRUISE EJECTOR INLET POSITION MIDWAY CLAMSHELL POSITION REMOVED ☐ FOREBODY INLET

△ 20 SHROUD LOCATION

◆ 80 SHROUD LOCATION 1.2 1.1 RATIO. A \sqcap 1.8 PRESSURE Ø.9 STATIC Ø.8 AMBIENT 8.7 10 Ø.6 LOCAL Ø.5 L 1.4 3.4 8.6 Ø.8 1.0 1.2

1.2

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PRESSURE TAP AXIAL LOCATION, x/dmax

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g.g L

8.4

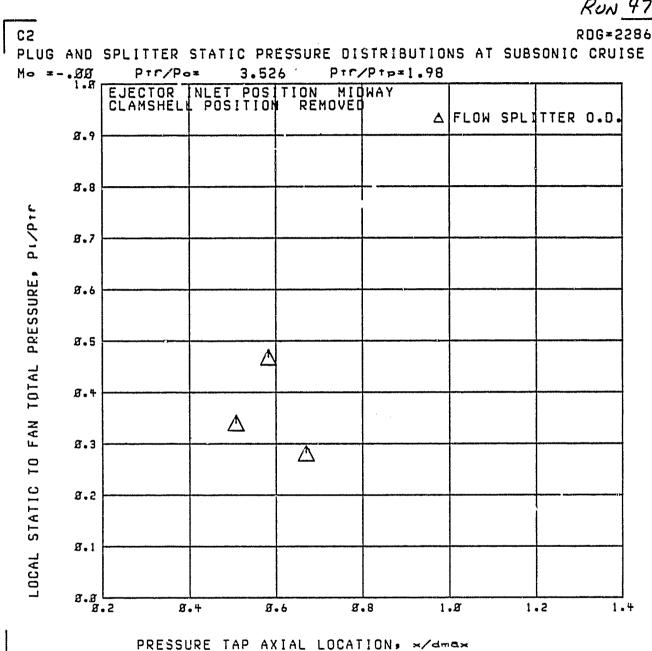
EJECTOR NLET POSITION MIDWAY CLAMSHELL POSITION REMOVED 8.9 8.8 8.8 8.6 8.7 8.6 8.7 8.4 8.4 8.7 8.4 8.7	C2 PLUG AND Mo =Ø.89	SPLITTER PTC/PG			STRIBUTIO	NS AT SUB	RDG=2 SONIC CRU	
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RDG=2284 CS EJECTOR INLET AND SHROUD STATIC PRESSURE DISTRIBUTION Mo =Ø.89 Ptr/Po= 5.354 Ptr/Ptp=1.80 AT SUBSONIC CRUISE EJECTOR NLET POSITION MIDWAY CLAMSHELL POSITION REMOVED FOREBODY INLET 20 SHROUD LOCATION 80 SHROUD LOCATION $\overline{\Delta}$ 1.2 P1/Po 1.1 LOCAL TO AMBIENT STATIC PRESSURE RATIO. Ш 1.8 Ø.9 凹 Ш Ø.8 Ø.7 Ø.6 ø.5 L 8.8 1.0 1.2 1.4 Ø.4 Ø.6

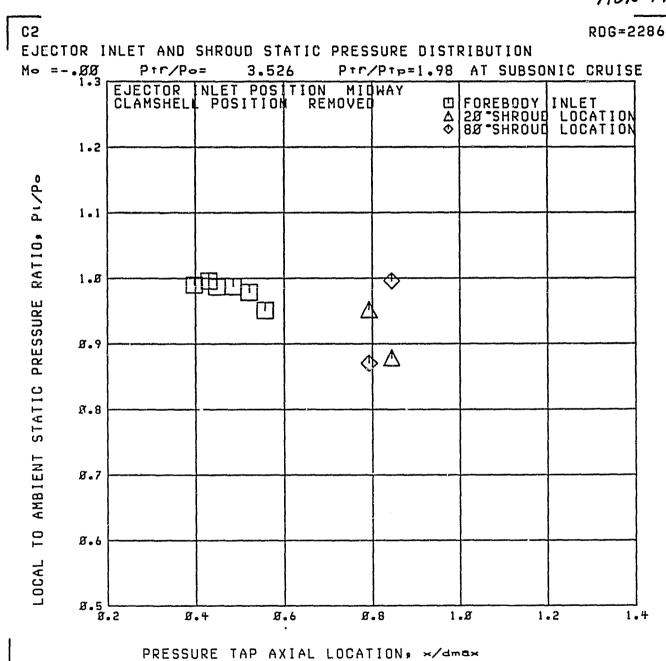
RUN 47

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RUN 47



RUN 47



RUN 47

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RUN 47 RDG=2287 CS PLUG AND SPLITTER STATIC PRESSURE DISTRIBUTIONS AT SUBSONIC CRUISE Mo =Ø.Ø4 4.584 Ptr/Ptp=1.97 EJECTOR INLET POSITION MICHAY CLAMSHELL POSITION REMOVED A FLOW SPLITTER O.D. 8.9 8.8 LOCAL STATIC TO FAN TOTAL PRESSURE, PIZPIF 8.7 8.6 8.5 8.4 \triangle ø.3 8.2 8.1 8.8

8.8

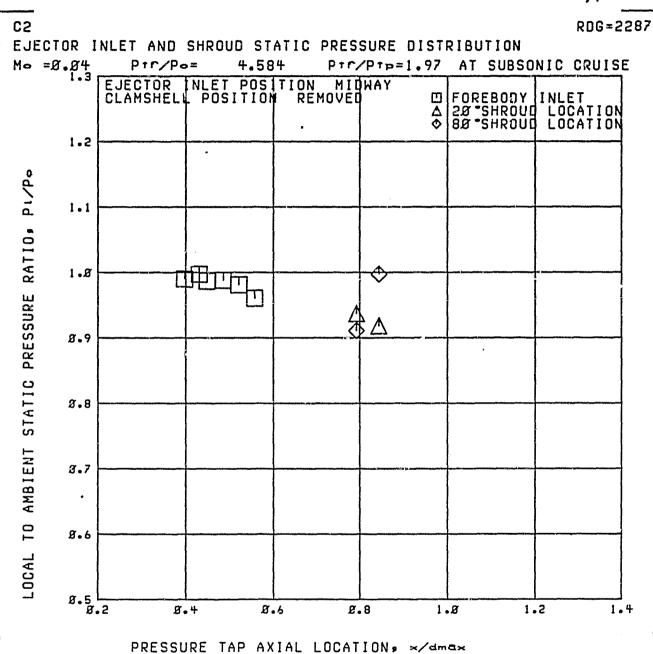
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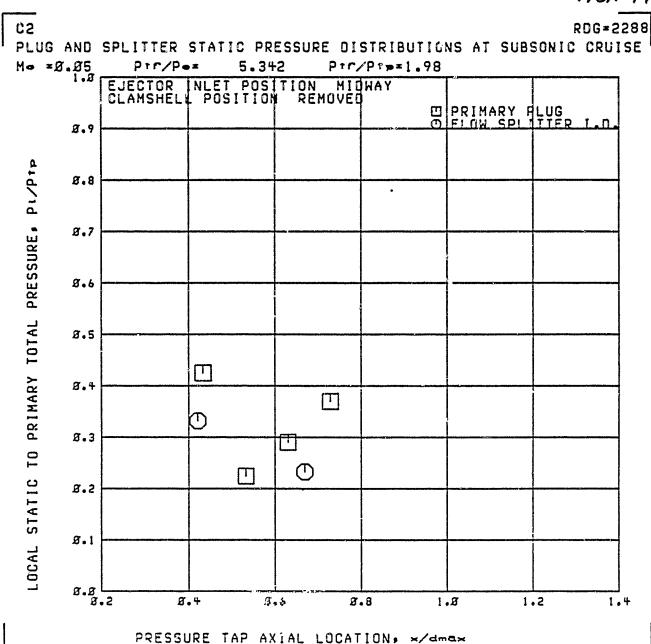
8.6

RUN 47



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RUN 47



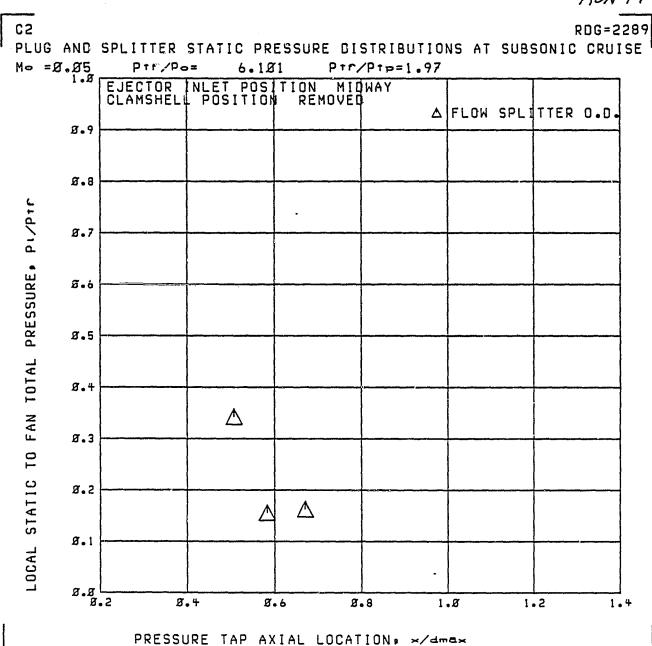
RUN 47

CS										?DG=2	
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32 RDG=2288 EJECTOR INLET AND SHROUD STATIC PRESSURE DISTRIBUTION Mo =Ø.Ø5 Ptr/Po= 5.342 Ptr/Ptp=1.98 AT SUBSONIC CRUISE EJECTOR INLET POSITION MIDWAY CLAMSHELL POSITION REMOVED FOREBODY INLET 20°5HROUD LOCATION 80°5HROUD LOCATION 1.2 LOCAL TO AMBIENT STATIC PRESSURE RATIO, PI/Po 1.1 î.Ø Ø.9 Ø.8 2.7 Ø.6 Ø.5 L 1.2 8.4 Ø.6 Ø.8 1.0

CS RDG=2289 PLUG AND SPLITTER STATIC PRESSURE DISTRIBUTIONS AT SUBSONIC CRUISE Mo =Ø.Ø5 Ptr/Po= 6.181 Ptr/Ptp=1.97 1.8 EJECTOR INLET POSITION MIDWAY CLAMSHELL POSITION REMOVED D PRIMARY PLUG O FLOW SPITTER 8.9 LOCAL STATIC TO PRIMARY TOTAL PRESSURE. PIZPTP g.8 8.7 8.6 Ø.5 8.4 0 Ш Ø.3 0 2.2 8.1 g.g._ 8.4 Ø.6 Ø.8 1.8 1.2 1.4

RUN 47



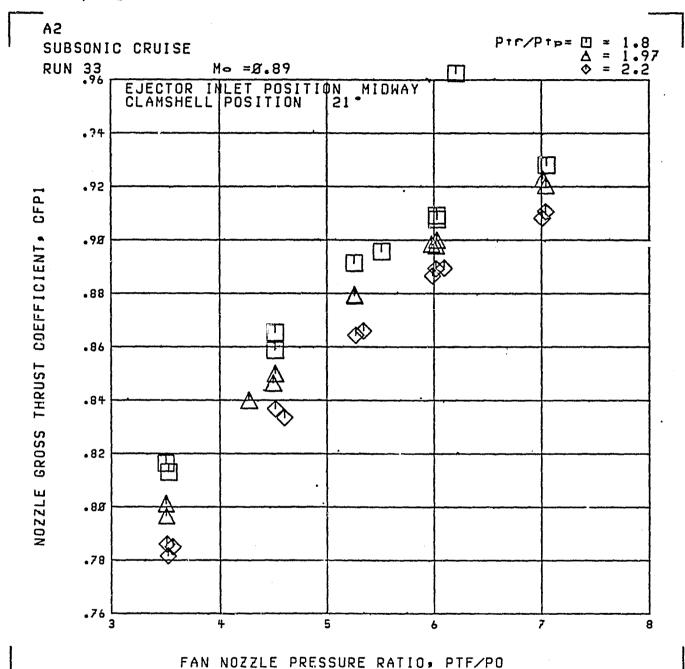
RDG=2289 C5 EJECTOR INLET AND SHROUD STATIC PRESSURE DISTRIBUTION Mo =Ø.Ø5 Ptr/Ptp=1.97 AT SUBSONIC CRUISE Ptr/Po= 6.101 EJECTOR INLET POSITION MIDWAY CLAMSHELL POSITION REMOVED □ FOREBODY INLET
Δ 2Ø SHROUD LOCATION
♦ 8Ø SHROUD LOCATION 1.2 1.1 RATIO 1.0 PRESSURE Ø.9 STATIC Ø.8 AMBIENT Ø.7 Ø. 5 Ø.5 L 1.2 Ø.4 Ø.6 Ø.8 1.0 1.4 PRESSURE TAP AXIAL LOCATION , x/dmax

CONFIGURATION A₂

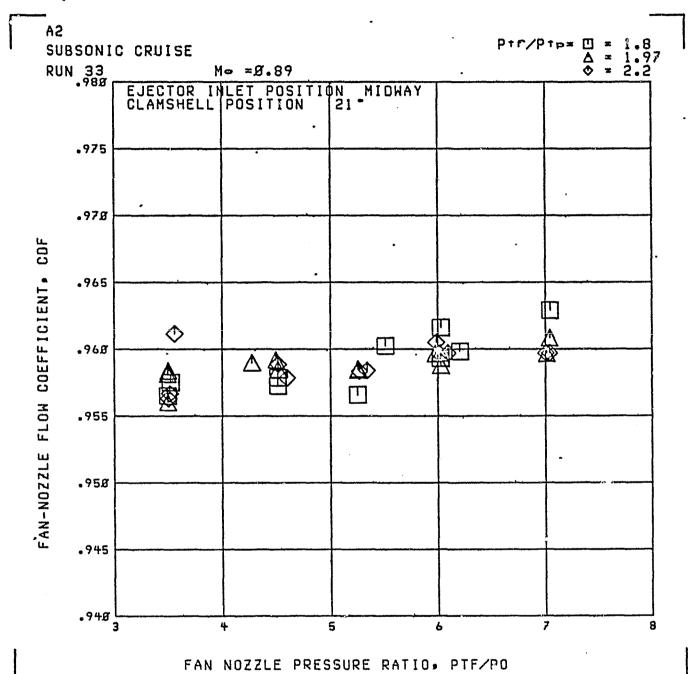
IRIS FLAP NOZZLE

SUBSONIC CRUISE

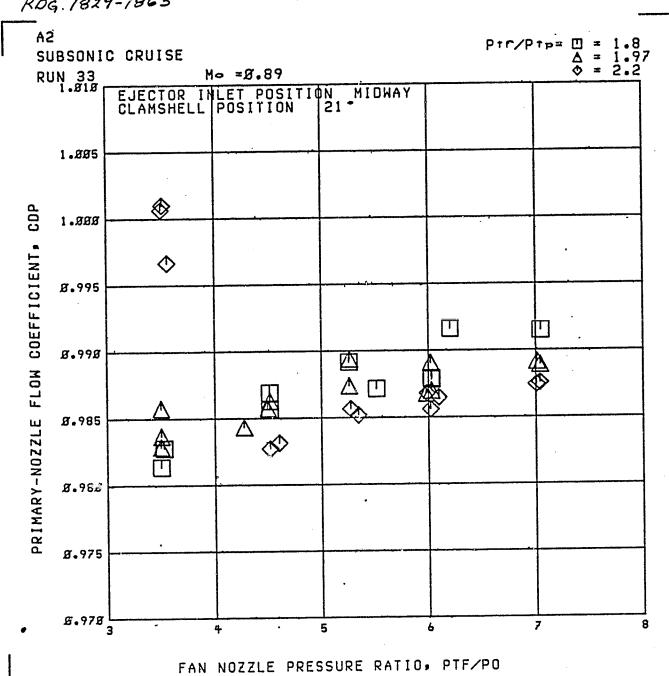
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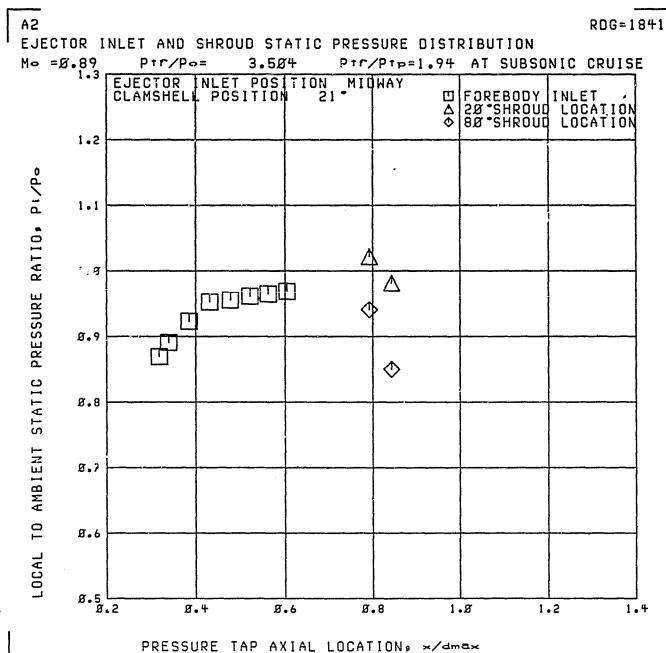
RUN 33

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RUN 33

=Ø	·89		OR		3.50 POSI		MIDWAY	=1.94	.		<u> </u>	
	~ ^	EJECT CLAMS	HEL	. POSI	TION	21	•	Δ	FLOW	SPL	TTER	0.0.
	Ø.9											
	Ø.8	•				<u> </u>						
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	Ø.5					Λ.						
	ؕ4				·	Δ			·			
	ø.3		······································			Δ						
	ø.2											····
	ø. i											
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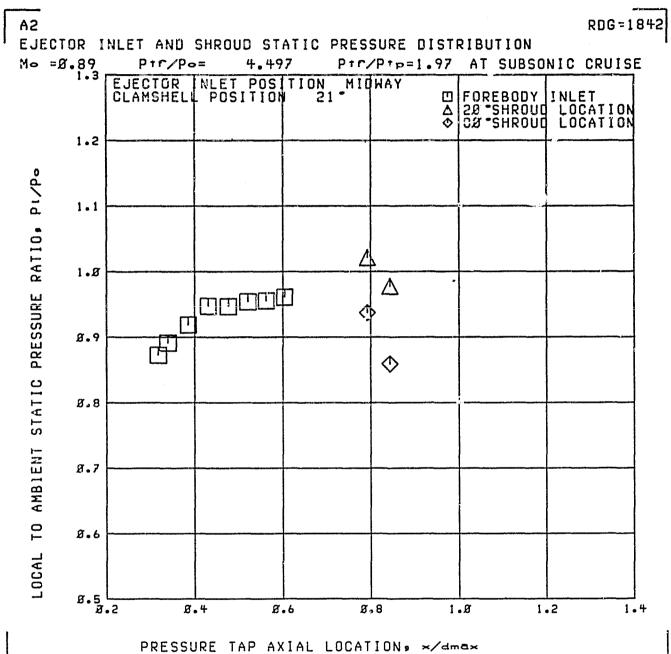
FUN 33



RDG=1842! **A2** PLUG AND SPLITTER STATIC PRESSURE DISTRIBUTIONS AT SUBSONIC CRUISE ! Mo =Ø.89 Ptr/Ptp=1.97 Ptr/Po= 4.497 EJECTOR INLET POSITION MIDWAY CLAMSHELL POSITION 21 D PRIMARY PLUG Ø.9 LOCAL STATIC TO PRIMARY TOTAL PRESSURE, PIZPTP Ø.8 Ø.7 8.6 (1) Ø.5 8.4 0 8.3 П 8.2 8.1 8.8 8.4 8.6 8.8 1.8 1.2 1.4 PRESSURE TAP AXIAL LOCATION: x/dmax

RUN 33

A2 PLUG Mo =1		SPLITTER Ptr/		TIC PR 4.49		DISTR:		NS AT	SUB		RDG≖1: CRUI
	1.5	EJECTOR CLAMSHE	NLE PO	T POS	TION 21	MIDWAY	Δ	FLOW	SPL	TTER	0.0.
	ؕ9	,		// // // // // // // // // // // // // 							
د	Ø.8	,,			, , , , , , , , , , , , , , , , , , ,						
P1/PTF	Ø.7										
PRESSURE,	2.6						.)				
	Ø.5		 		Δ				······································		
TOTAL	ؕ4										
TO FAN	ؕ3										
STATIC 1	ø.2			*	Δ						
LOCAL STA	ø. i							·	· · · · · · · · · · · · · · · · · · ·		
707	8.8 8	. 2	8.4	. B.	. 6	8.8	1	.ø	1	• s	1.



RUN 33

A2 Plug	AND	SPLITTER	STATIC	PRESSUR	E DISTRI	BUTIO	NS AT SUB		1843 JISE
M- =	Ø.89 1.8	PIC/PO EJECTOR CLAMSHELI		261 OSITION ION 2	PTC/PTP MIDWAY	=1.97			٦
	ø.9		PUSIT	1011 2		<u> </u>	PRIMARY I	LUG TTIFR L.O	لم
P L/P TP	ؕ8								7 .—
	ø.7					.,			
PRESSURE.	ؕ6								1
TOTAL	ø.5								1
PRIMARY	ؕ4				<u>'</u>		- 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,		-
TO PRIM	ø.3		0						_
STATIC	8.2			1					1
	ø.i		•						-
LOCAL	ø.g 8	.2 Ø	. 4	8.6	ؕ8	1	.Ø 1	•2	1.4
		PRESSI	JRE TAP	AXIAL I	_OCATION:	, ×/dm	ā×	•	

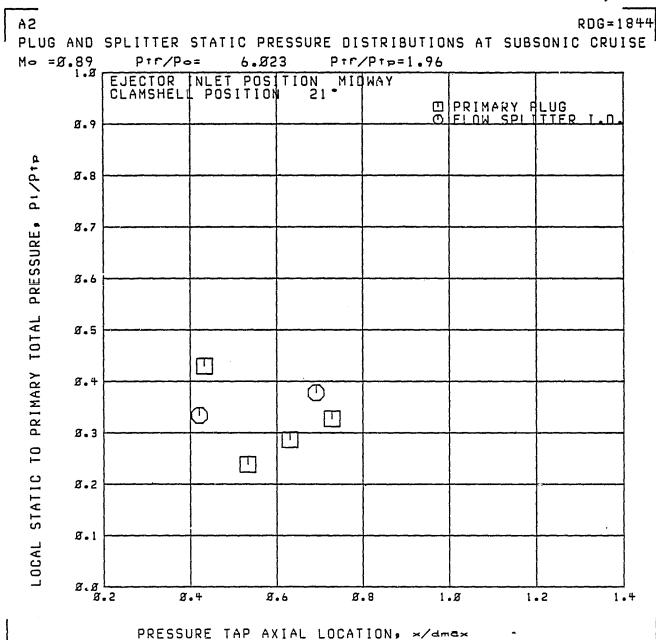
RUN 33

A2 RDG=1843 PLUG AND SPLITTER STATIC PRESSURE DISTRIBUTIONS AT SUBSONIC CRUISE Mo =Ø.89 PTC/Po= Ptr/Ptp=1.97 5.261 EJECTOR | NLET POSITION MIDWAY CLAMSHELL POSITION 21 A FLOW SPLITTER O.D. 8.9 Ø.8 PRESSURE, PIZPIF Ø.7 Ø.6 Ø.5 Δ FAN TOTAL Ø. 4 Ø.3 LOCAL STATIC TO 3.2 △ Ø.1 ø.ø.2 8.6 Ø.8 1.8 Ø.4 1.2 1.4 PRESSURE TAP AXIAL LOCATION; x/dmax

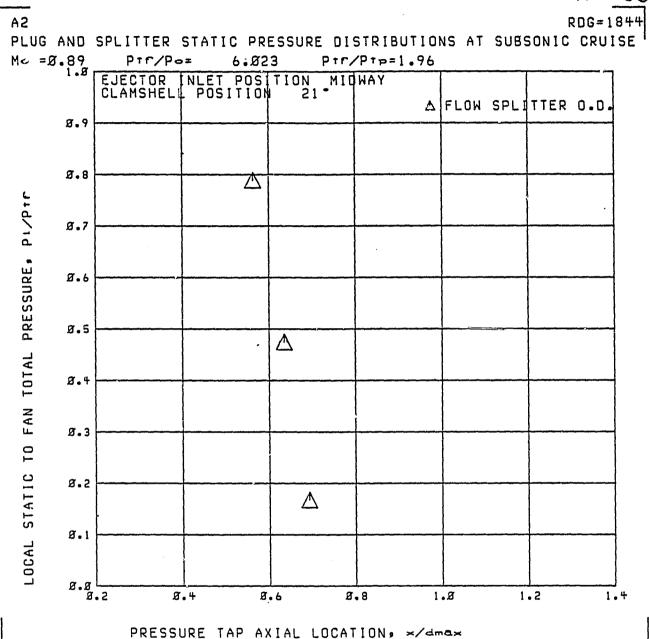
ORIGINAL PAGE TO

Aa						•								RDG=	1843
			INLET												
Me	o =Ø,	.89 1.3		tr/Po		5.26			/P + p = 1	1.97	AT	SUBSO	INIC	CRUIS	3E ¬
			CLAMS	SHELL	POS	ITIO	NOIT!	1 *	WAT	日本	FOR 2Ø	EBODY SHROUE SHROUE	INL	ET CATIO CATIO	N
		1.2				1		!		-	\		1		4
	P1/P0	1.1													
	RATIO.	1.2							Δ						
L C C C C C C C C C C C C C C C C C C C	PRESSURE	Ø.9	[→					V	
	STATIC	Ø.8												and the second s	
1	AMBIENT	Ø.7								· · · · · · · · · · · · · · · · · · ·				,	
(1	0	Ø.6	ļ		ļ		 	,	 				 		-
(LOCAL	ø.5 ø.	.2	8	.4	Ø	1.6	Ø	-8	1	28	1	•2		1.4
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RUN 33



RUN 33

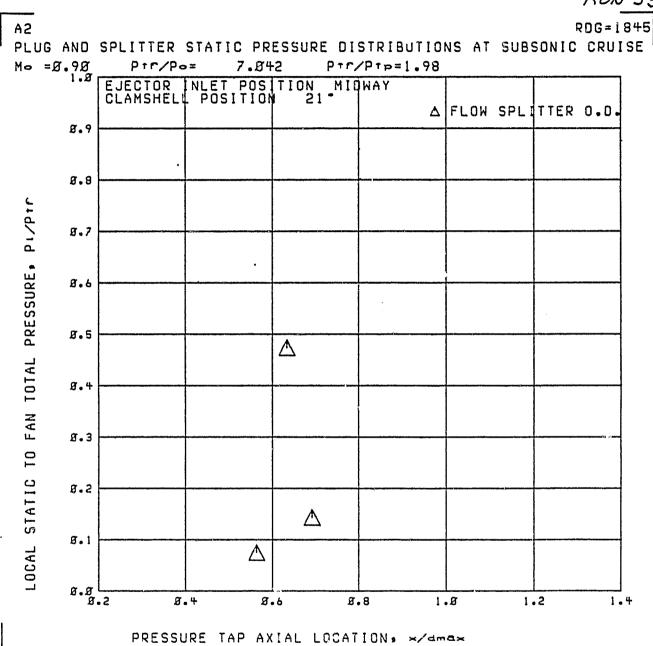


RDG=1844 **A2** EJECTOR INLET AND SHROUD STATIC PRESSURE DISTRIBUTION $Mo = \emptyset.89$ Ptr/Po= 6.823 Ptr/Ptp=1.96 AT SUBSONIC CRUISE EJECTOR INLET POSITION MIDWAY CLAMSHELL POSITION 21 □ FOREBODY INLET
Δ 2Ø SHROUD LOCATION
♦ 8Ø SHROUD LOCATION 1.2 LOCAL TO AMBIENT STATIC PRESSURE RATIO, PL/Po 1.1 1.8 Ø.9 \Diamond Ø.8 Ø.7 Ø.6 Ø.5 L 8.4 Ø.6 ø.8 1.0 1.2 PRESSURE TAP AXIAL LOCATION, x/dmax

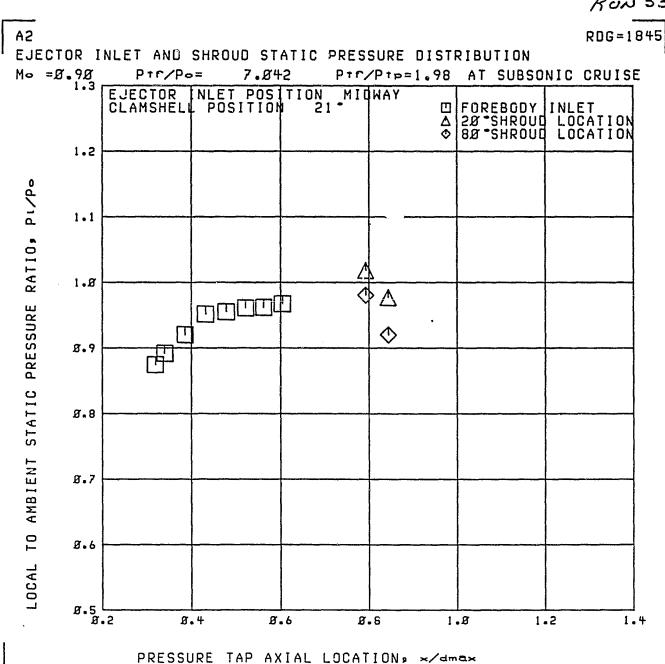
RDG=1845 A2 PLUG AND SPLITTER STATIC PRESSURE DISTRIBUTIONS AT SUBSONIC CRUISE Mo =Ø.98 Ptr/Ptp=1.98 Ptr/Po= 7.842 EJECTOR NLET POSITION MIDWAY CLAMSHELL POSITION 21 PRIMARY PLUG OFLOW SPLITTER 8.9 PRIMARY TOTAL PRESSURE, PIZPTP Ø.8 Ø.7 8.6 Ø.5 Ø.4 Ø.3 10 LOCAL STATIC Ø.2 Ø.1 g.g._ 1.2 1.0 Ø.8 8.4 Ø.6

PRESSURE TAP AXIAL LOCATION: x/dmax

RUN 33

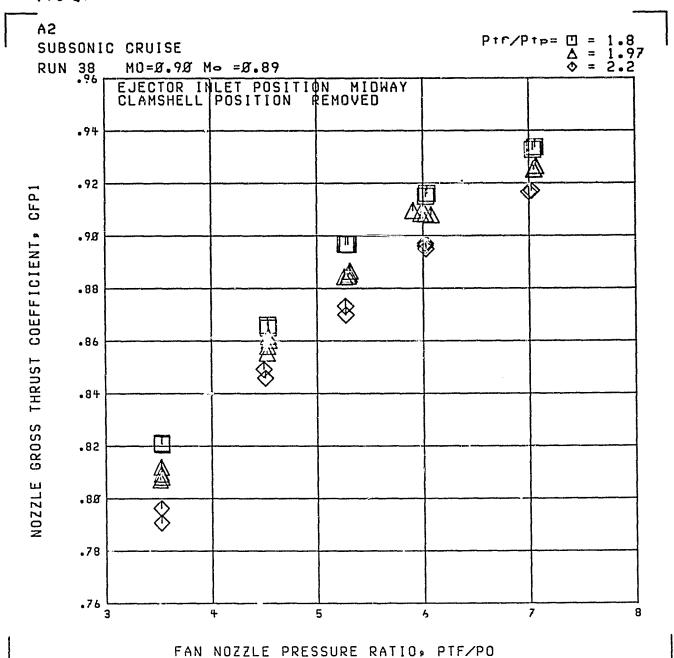


RUN 33

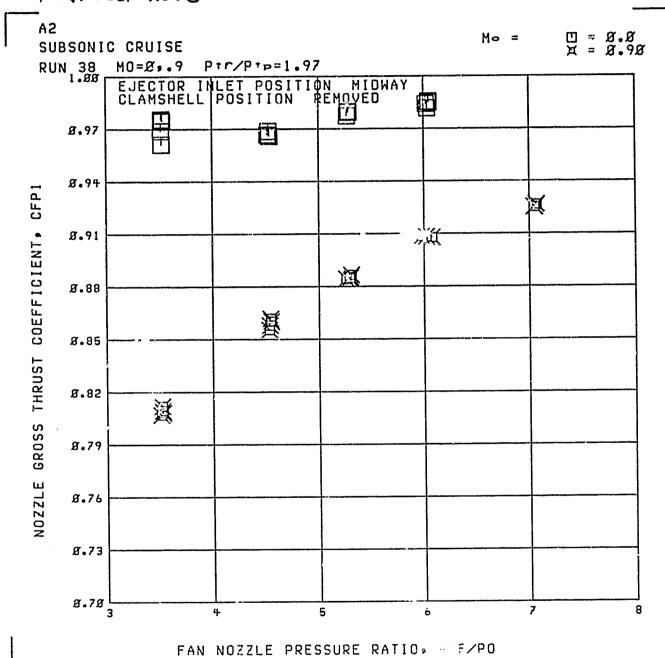


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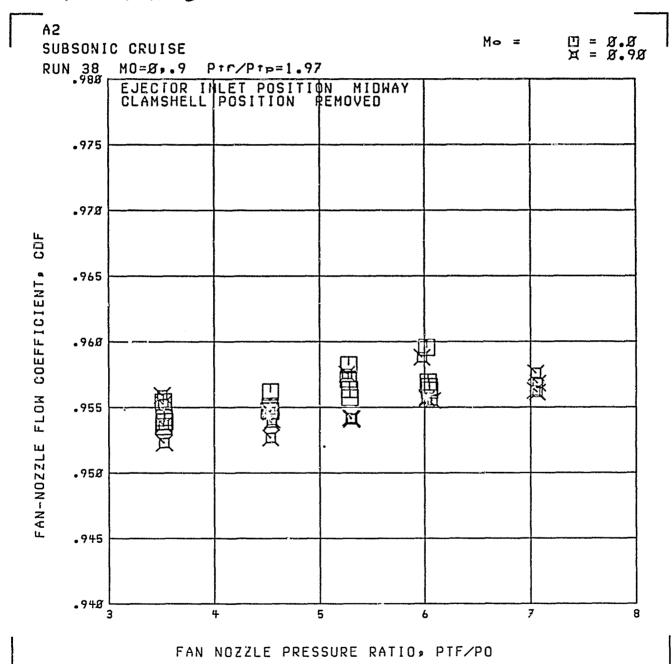
ROG. 2001-2058



Rog. 2001-2058



RPG. 2001-2058

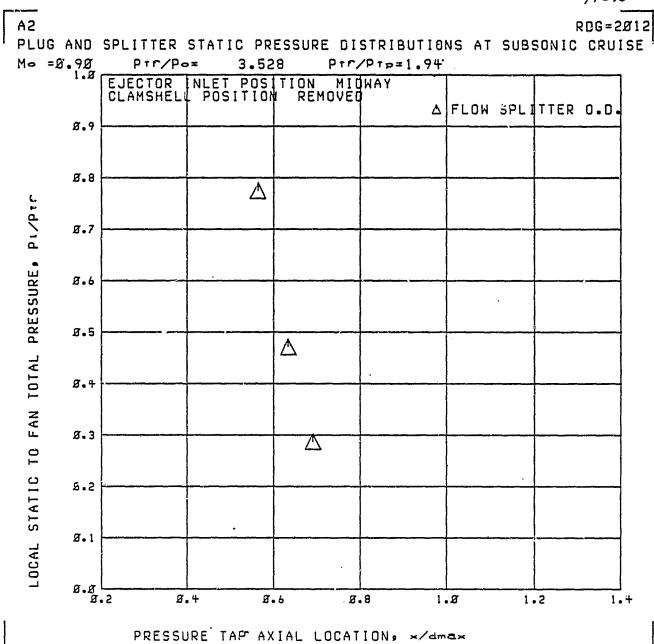


209.2001 - 2058 **SA** U = Ø.8 H = Ø.98 Mo = SUBSONIC CRUISE RUN 38 MO=Ø . 9 Ptr/Ptp=1.97 EJECTOR INLET POSITION MIDWAY CLAMSHELL POSITION REMOVED Ø.995 PRIMARY-NOZZLE FLOW COEFFICIENT, CDP Ø.99Ø 田 图 Ø.985 逐 溟 Ø.98Ø Ø.975 四 8.978 М Ø.965 Ø.968 7 4 5 8

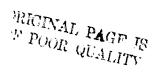
FAN NOZZLE PRESSURE RATIO, PTF/PO

RUN 3B

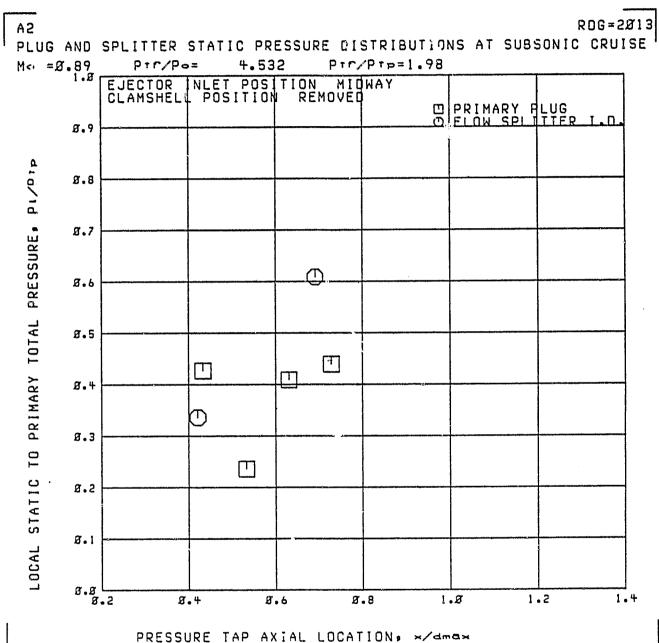
	7.9Ø 1.8	Ptr/Pa	3.5		/Ptn=1.94	•	1
		EJECTOR CLAMSHEL	INLET POS POSITIO	TTION MIN N REMOVE	WAY E	PRIMARY I	LUG
	8.9						
pi/pra	Ø.8			0			
•	ø.7						
PRESSURE.	Ø.6						
7. 2.	~**						
TOTAL	ø.5						
	3. 4						
PRIMARY	ø.3		0				
0	2000						
STATIC	ø.2				<u> </u>		
	Ø.1						
LOCAL	8.8 8						

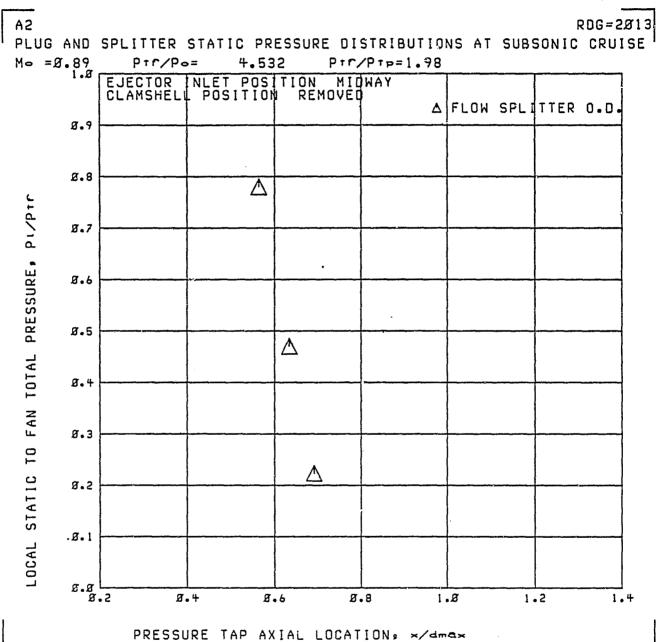


A2 RDG=2012 EJECTOR INLET AND SHROUD STATIC PRESSURE DISTRIBUTION Mo =Ø.9Ø Ptr/Po= 3.528 Ptr/Ptp=1.94 AT SUBSONIC CRUISE EJECTOR INLET POSITION MIDWAY CLAMSHEL POSITION REMOVED FOREBODY INLET 20°SHROUD LOCATION 80°SHROUD LOCATION $\overline{\Delta}$ 1.2 Pt/Po 1.1 RATIOS 1.8 STATIC PRESSURE Ø.9 8 Ø.8 П TO AMBIENT Ø.7 Ø.6 LOCAL Ø.5 ∟ Ø.2 8.4 Ø.6 Ø.8 ۹. ۱ 1.2 1.4 PRESSURE TAP AXIAL LOCATION, x/dmax

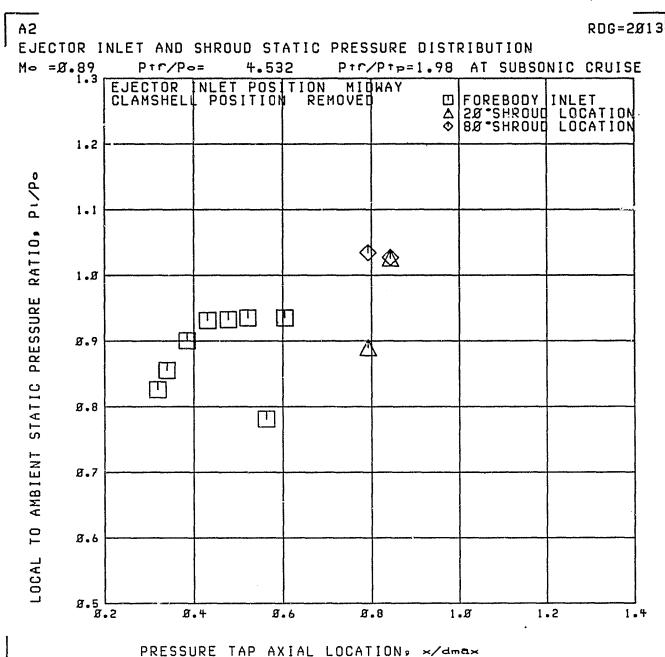


RUN 38





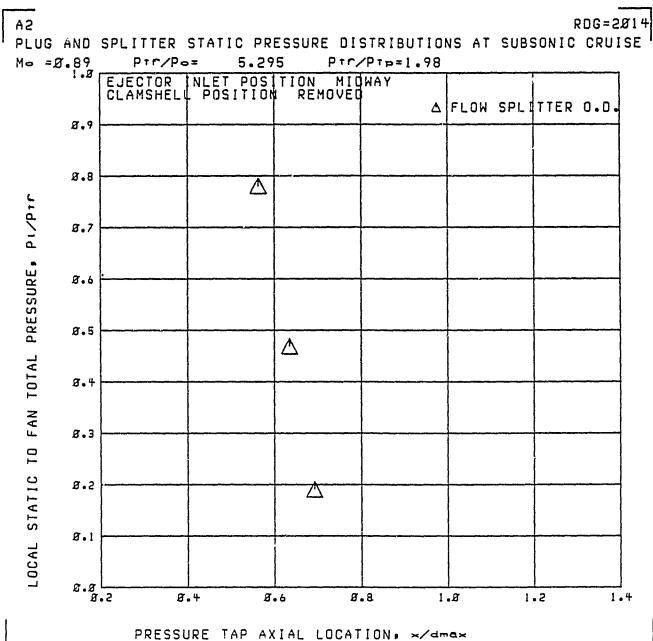
RUN 38



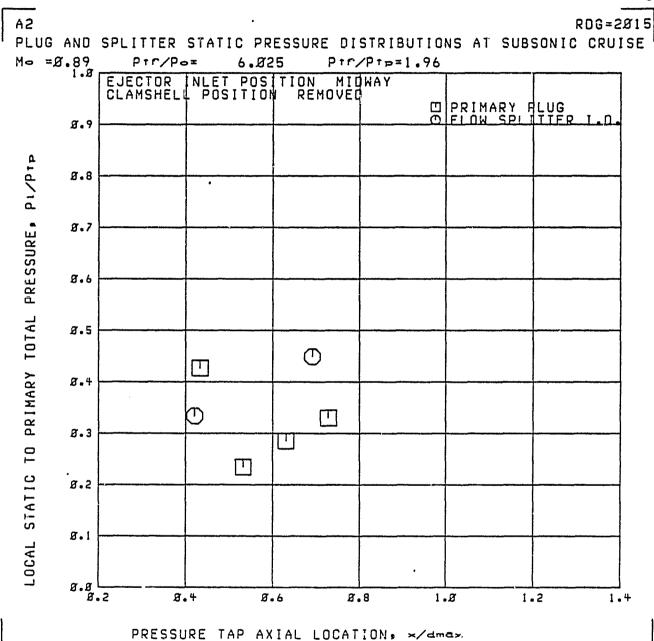
RUN 38

=	Ø.89	Ptr/P			tr/Ptp=	1.98			
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ב כ									
LUCUL	Ø.1								
7 5	8.8 8								

RUN 3B



RDG=2Ø14 A2 EJECTOR INLET AND SHROUD STATIC PRESSURE DISTRIBUTION Mo =Ø.89 1.3 Ptr/Po= 5.295 Ptr/Ptp=1.98 AT SUBSONIC CRUISE EJECTOR INLET POSITION MIDWAY CLAMSHELL POSITION REMOVED FOREBODY INLET 20 SHROUD LOCATION 80 SHROUD LOCATION Δ 1.2 PI/Po 1.1 RATIO, 1.2 STATIC PRESSURE 8.9 Ø.8 **AMBIENT** Ø.7 1 OCAL. TO Ø.6 Ø.5 L Ø.4 Ø.6 Ø.8 1.8 1.2 1.4 PRESSURE TAP AXIAL LOCATION, x/dmax Carried PAGE 18



RDG=2Ø15 **A2** PLUG AND SPLITTER STATIC PRESSURE DISTRIBUTIONS AT SUBSONIC CRUISE Mo =Ø.89 Ptr/Po= 6.Ø25 Ptr/Ptp=1.96 EJECTOR INLET POSITION MIDWAY CLAMSHELL POSITION REMOVED A FLOW SPLITTER O.D. 2.9 Ø.8 Δ PRESSURE, PIZPIF 8.7 8.0 Ø.5 Δ TOTAL Ø.4 FAN Ø.3 LOCAL STATIC TO Ø.2 Δ 8.1 ø.g._ 8.4 8.6 9.8 1.5 1.2 1.4 PRESSURE TAP AXIAL LOCATION: x/dmax

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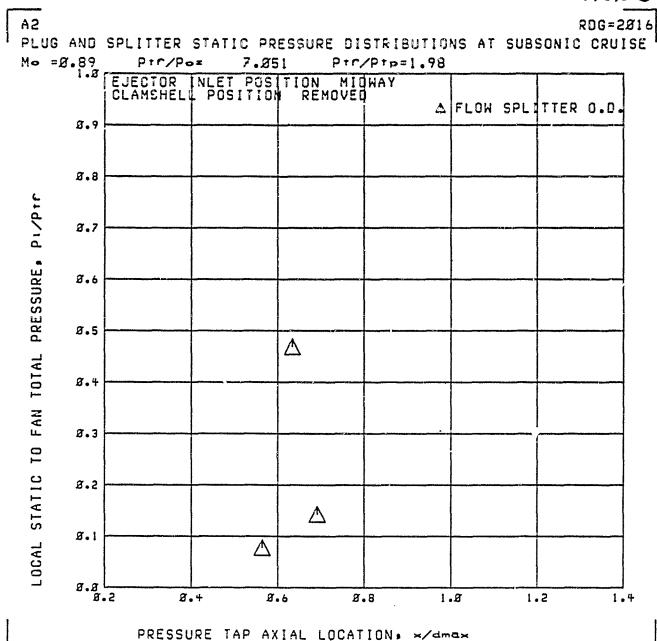
RDG=2Ø15 45 EJECTOR INLET AND SHROUD STATIC PRESSURE DISTRIBUTION H⇔ =Ø.89 1.3 Ptr/Po= Ptr/Ptp=1.96 AT SUBSONIC CRUISE 6.825 EJECTOR INLET POSITION MIDWAY CLAMSHELL POSITION REMOVED ☐ FOREBODY INLET

△ 20 SHROUD LOCATION

◆ 80 SHROUD LOCATION 1.2 PI/Po 1.1 **®** 1.5 PRESSURE 8.9 STATIC Ø.8 П AMBIENT 8.7 10 2.6 Ø.5 L 8.4 Ø.6 Ø.8 1.8 1.2 1.4 PRESSURE TAP AXIAL LOCATION: */dmax

RDC=2Ø16 45 PLUG AND SPLITTER STATIC PRESSURE DISTRIBUTIONS AT SUBSONIC CRUISE Mo =Ø.89 P#r/Ptp#1.98 Ptr/Po= 7.051 EJECTOR INLET POSITION MIDWAY CLAMSHELL POSITION REMOVED PRIMARY FLUG OFLOW SPITTER LOD 8.9 LOCAL STATIC TO PRIMARY TOTAL PRESSURE, PIZPTP Ø.8 8.7 8.6 ø.5 8.4 Ø.3 8.2 Ø.1 8.8 8.4 8.6 Ø.8 1.8 1.2 1.4 PRESSURE TAP AXIAL LOCATION: x/dmax

19UN 38



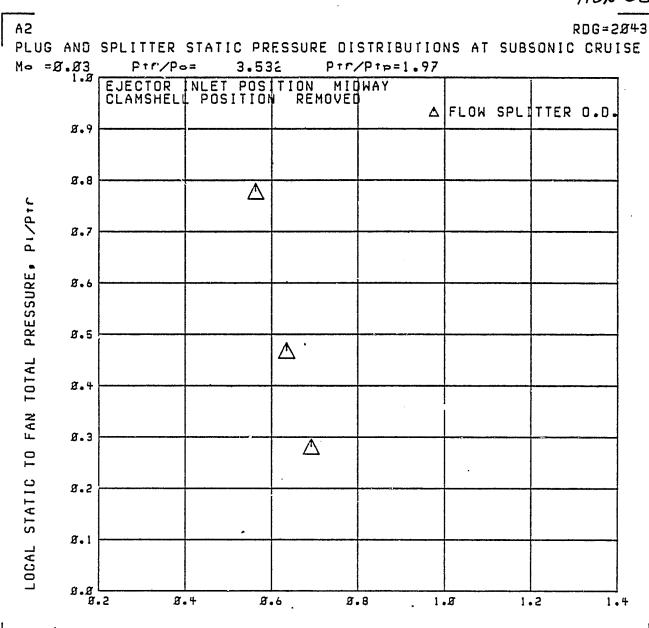
RUN 38

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O I	.8		<u> </u>						
-	.7								
<u>С</u> в.	•6								
LOCAL	50.	2 8.	.4 8		·8	1.8	1.	.2	1.4
			JRE TAP AX	KIAL LOCAT	「ION』 ×∕<	dmax			



RDG=2Ø43 **A2** SW 3 SPLITTER STATIC PRESSURE DISTRIBUTIONS AT SUBSONIC CRUISE Ft. 13 1.3 PTC/Ptp=1.97 Mes Ptr/Po= 3.532 EJECTOR INLET POSITION MIDWAY CLAMSHELL POSITION REMOVED PRIMARY FLUG 8.9 LOCAL STATIC TO PRIMARY TOTAL PRESSURE, PIZPIP 8.8 B.7 8.6 Ш ø.5 Ø.4 **D** Ø.3 Ø.2 Ø.1 8.8 L 1.4 1.0 1.2 Ø.4 3.6 11.8 PRESSURE TAP AXIAL LOCATION, x/dmax

RUN 38



PRESSURE TAP AXIAL LOCATION, x/dmax

,5UN 38

RDG=2843 **A2** EJECTOR INLET AND SHROUD STATIC PRESSURE DISTRIBUTION Mo =Ø.Ø3 Ptr/Po= Ptr/Ptp=1.97 AT SUBSONIC CRUISE 3.532 EJECTOR INLET POSITION MIDWAY CLAMSHELL POSITION REMOVED FOREBODY INLET 20 SHROUD LOCATION 80 SHROUD LOCATION 1.2 P1/Po 1.1 RATIO, 1.8 STATIC PRESSURE 8.9 8.8 LOCAL TO AMBIENT 3.7 8.6 8.5 L 1.4 B.4 B.6 Ø.8 1.8 1.2 PRESSURE TAP AXIAL LOCATION: x/dmax

RUN 38

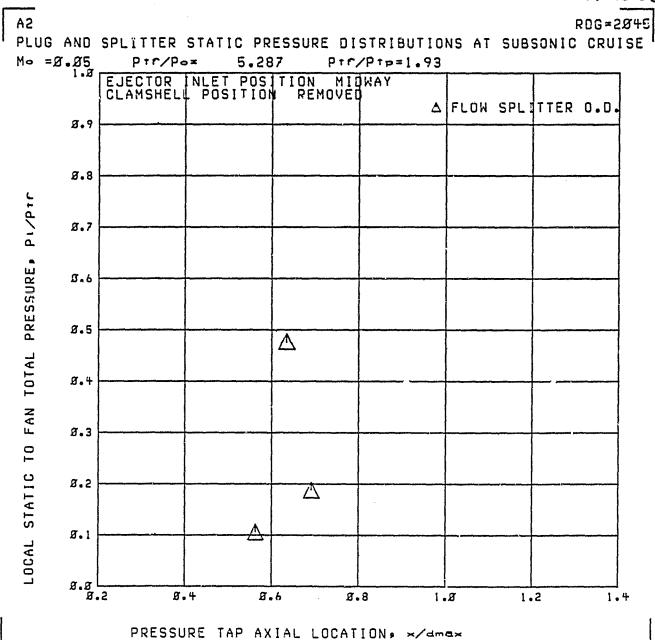
	AND Ø.84 1.8	Ptr/Pa	× 4.5	28 Ptr.	/Ptp=1.94	NS AT SUB	SONIC CRUI
	1.8	EJESTOR CLAMSHELI	NLET POS POSITIO	TION MII		PRIMARY	FLUG
	Ø.9			<u> </u>	0	FLOW SPL	TTER L.D.
рі/ртр	ø.8						
2.	8.7						
PRESSURE.	8.6						
TOTAL	ø.5						
	8. 4						
O PRIMARY	ø.3		0				
STATIC TO	ø.2						
	Ø.1						
LOCAL	8.8 8	.2 8	.4	8.6 8	T.8 1	•8	.2 1.

RUN 38

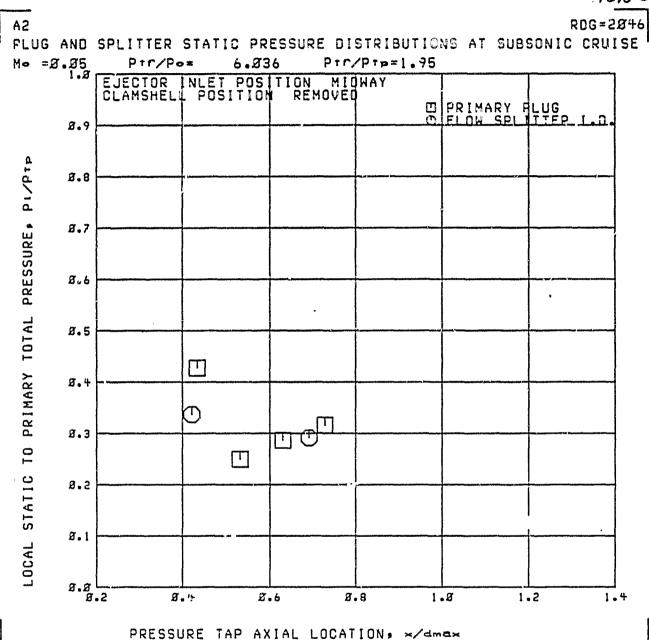
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A2 RDG=2Ø44 EJECTOR INLET AND SHROUD STATIC PRESSURE DISTRIBUTION Mo =Ø.Ø4 1.3 = 09/719 4.528 Ptr/Ptp=1.94 AT SUBSONIC CRUISE NLET POSITION MIDWAY POSITION REMOVED EJECTOR CLAMSHEL FOREBODY 28 *SHROUD 88 *SHROUD INLET LOCATION LOCATION 1.2 P1/P0 1.1 RATIO. 1.8 **⊕** ♦ LOCAL TO AMBIENT STATIC PRESSURE 8.9 8.8 Ø.7 Ø.6 Ø.5 └ B.4 Ø.8 8.6 1.8 1.2 1.4 PRESSURE TAP AXIAL LOCATION: x/dmax

A2								ROG	2N 38 3=2845
		SPLITTER Ptr/Pa		PRES .287		STRIBUTI(Ptp=1.93		BSONIC C	RUISE '
1,10	=Ø•Ø5 1•8	EJECTOR	NLET P		ION MID	WAY	<u></u>		
		CLAMSHEL	L POSIT	ION	REMOVED	ַ	PRIMARY DELOW SPI	HLUG	
	Ø.9						DIELOW SPI	TIFR L	-11-4
P1/P1P	ؕ8								
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PRESSURE,	Ø . 6								-
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TOTAL									
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,	מ	•	• T	Ø.6	. ه	0	1.2	1 • 6	1 • T
		PRESSU	JRE TAP	AXI	AL LOCAT	ION: ×/d	māx		



A2 RDG=2Ø45 EJECTOR INLET AND SHROUD STATIC PRESSURE DISTRIBUTION Mo =Ø.Ø5 Ptr/Po= 5.287 Ptr/Ptp=1.93 AT SUBSONIC CRUISE EJECTOR INLET POSITION MICHAY CLAMSHELL POSITION REMOVED ☐ FOREBODY INLET △ 20 SHROUD LOCATION ◆ 80 SHROUD LOCATION 1.2 P1/Po 1.1 LOCAL TO AMBIENT STATIC PRESSURE RATIO. 1.8 Φ Ø.9 Ø.8 8.7 Ø.6 Ø.5 L Ø.4 Ø.6 Ø.8 1.4 1.0 1.2 PRESSURE TAP AXIAL LOCATION, x/dmax

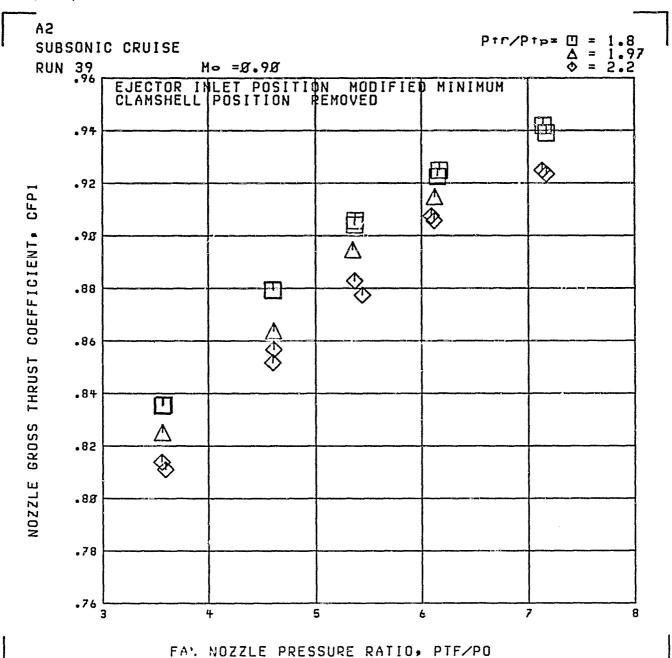


RUN 38

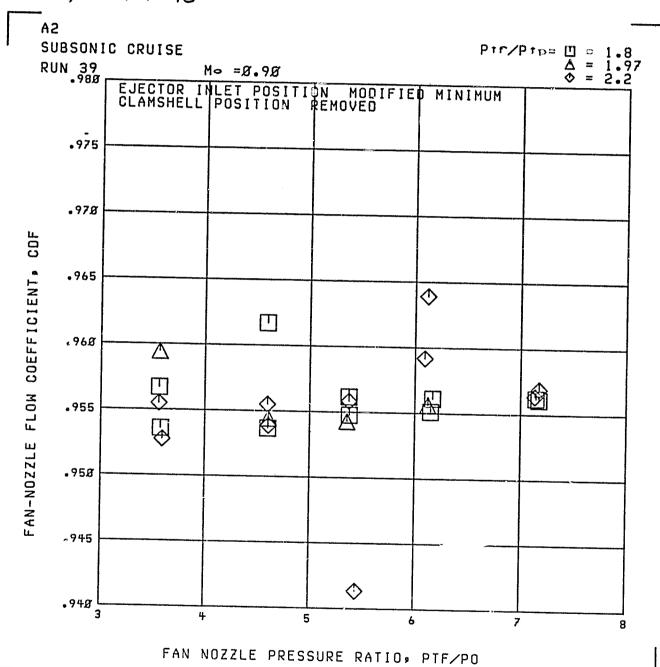
A2									•	RDG=28
		SPLITTER					NS AT	SUB	SONIC	CRUIS
M- =Ø	1.8	PIC/PO EJECTOR CLAMSHEL			MIDWAY VEO					
	Ø.9			<u> </u>		Δ	FLOW	SPL	TTER	0.0.
	ø.8		·	ļ		· · · · · · · · · · · · · · · · · · ·				
P1/P1r	Ø.7									
PRESSURE,	Ø.6									
	ø.5									
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AL ST	Ø.1		^							
LOCAL	g.g g	.2 8	• 4	8.6	Ø.8	1	.8	1	.2	1 . 4
		PRESS	URE TAP A	XIAL LO	CATION,	×/d=	ıa× ·			

A2 RDG=2846 EJECTOR INLET AND SHROUD STATIC PRESSURE DISTRIBUTION Mo =Ø.Ø5 Ptr/Po= 6.236 Ptr/Ptp=1.95 AT SUBSONIC CRUISE EJECTOR INLET POSITION MITHAY CLAMSHELL POSITION REMOVE FOREBODY INLET 20 SHROUD LOCATION 80 SHROUD LOCATION 1.2 LOCAL TO AMBIENT STATIC PRESSURE RATIO, PIZPO 1.1 1.0 **♦** 8.9 Ø.8 Ø.7 Ø.6 Ø.5 L 8.4 8.6 Ø.8 1.8 1.2 1.4 PRESSURE TAP AXIAL LOCATION, x/dmax

209. 2059 - 2090

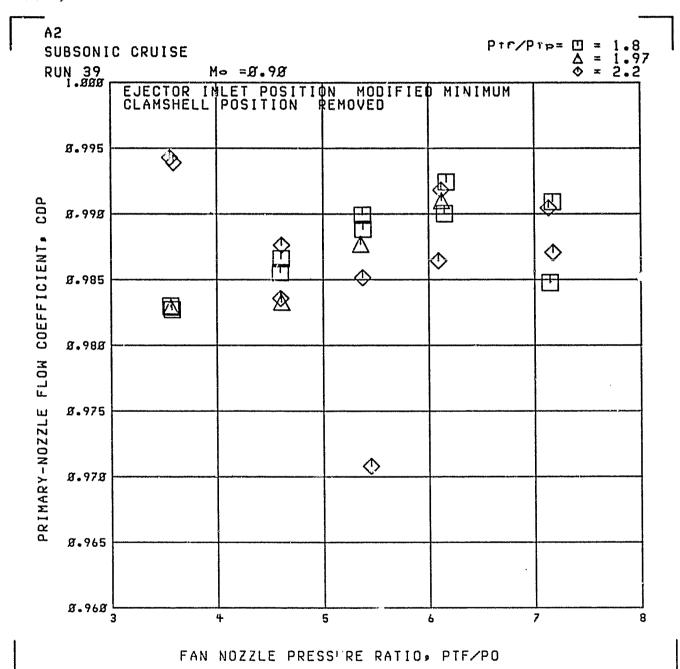


ROG 2059-2090

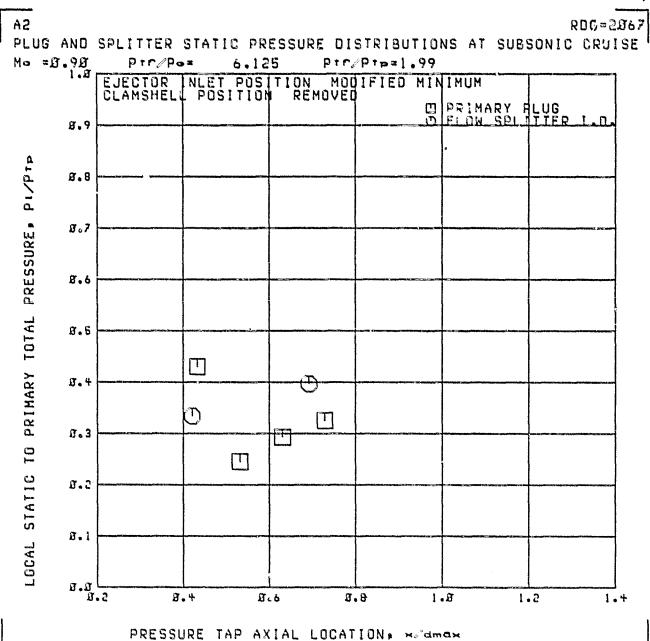


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RDG 2059-2090



RUN 39



RUN 39

	r.9g	Ptr	/Po=	6.12		PT==1	.99				
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1 2 3	g.g							<u> </u>		•2	

RUN 39

RDG=2867 42 EJECTOR INLET AND SHROUD STATIC PRESSURE DISTRIBUTION Ptr/Ptp=1.99 AT SUBSONIC CRUISE Mo =Ø.9Ø Ptr/Po= 6.125 EJECTOR | NLET POSITION MODIFIED MINIMUM CLAMSHELL POSITION REMOVED D FOREBODY INLET A 28*SHROUD LOCATION & 88*SHROUD LOCATION 1.2 1.1 RATIO. 1.8 $\overline{\Diamond}$ LOCAL TO AMBIENT STATIC PRESSURE Ø.9 Щ П 9.8 8.7 8.6 Ø.5 L 8.8 1.2 1.4 8.4 B.6 1.8 PRESSURE TAP AXIAL LOCATION, x/dmax

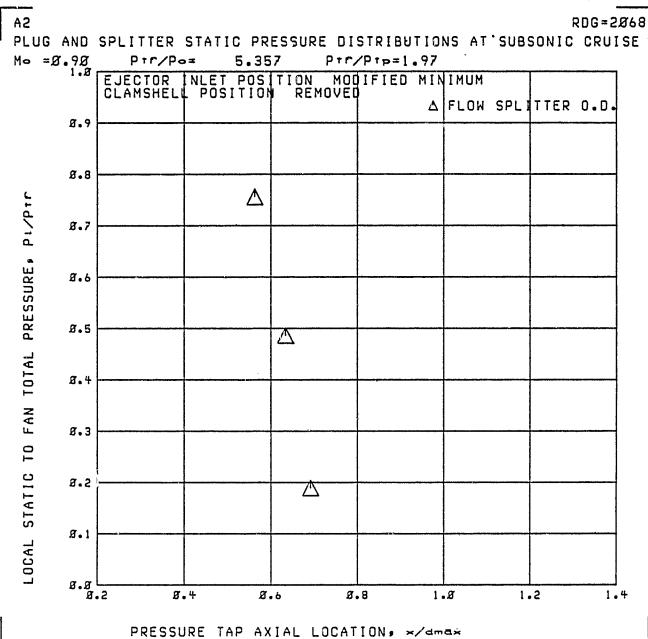


RUN39

						IONS AT SU		G=2868 RUISE
Me	=Ø•9Ø 1•8	PIC/PO EJECTOR CLAMSHELL			7/P+p=1.5 00		' FLUG	
	Ø.9					O FLUM SE	111111111111	
P1/PTP	ø.8							
	8.7						, , , , , , , , , , , , , , , , , , ,	
PRESSURE	ؕ6							
TOTÂL	Ø.5			0				
PRIMARY	ø.4							
TO PRI	8.3		р п					
21.	8.2						<u> </u>	
LOCAL STATIC	ؕ1							
07	8.8 8	.s &	• + 1	3.6	ø.8	1.8	1.2	1.4
			URE TAP A	XIAL LOCA	ATION: ×	/dmāx ~		1

302

RUN 39



RDG=2Ø68 12 EJECTOR INLET AND SHROUD STATIC PRESSURE DISTRIBUTION Mo =Ø.9Ø AT SUBSONIC CRUISE Ptr/Ptp=1.97 Ptr/Po= .5.357 MODIFIED MINIMUM
OVED

D FOREBODY INLET

A 20 SHROUD LOCATION

BØ SHROUD LOCATION EJECTOR INLET POSITION CLAMSHELL POSITION REMO REMOVED 1.2 P1/Po 1.1 LOCAL TO AMBIENT STATIC PRESSURE RATIO. 1.8 $\overline{\Diamond}$ 由 Ø.9 П Ш Ø.8 Ø.7 Ø.6 Ø.5 L 1.2 1.4 Ø.4 Ø.6 ø.8 1.8

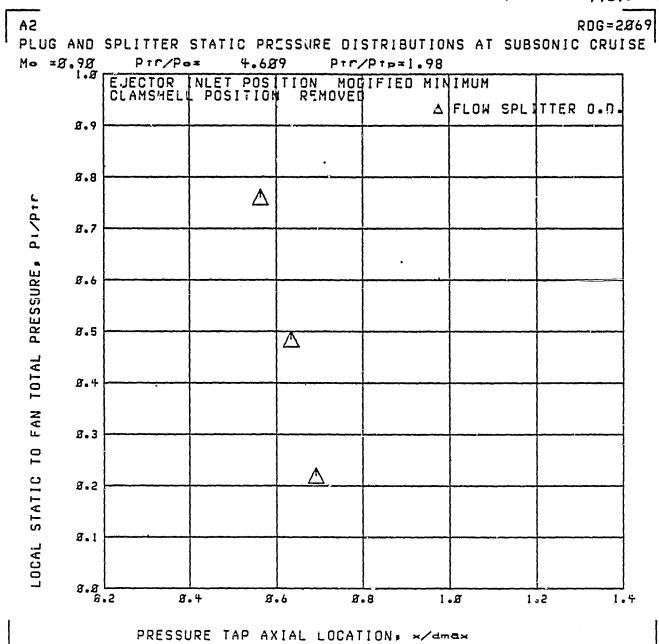
PRESSURE TAP AXIAL LOCATION, x/dmax

RUN 39

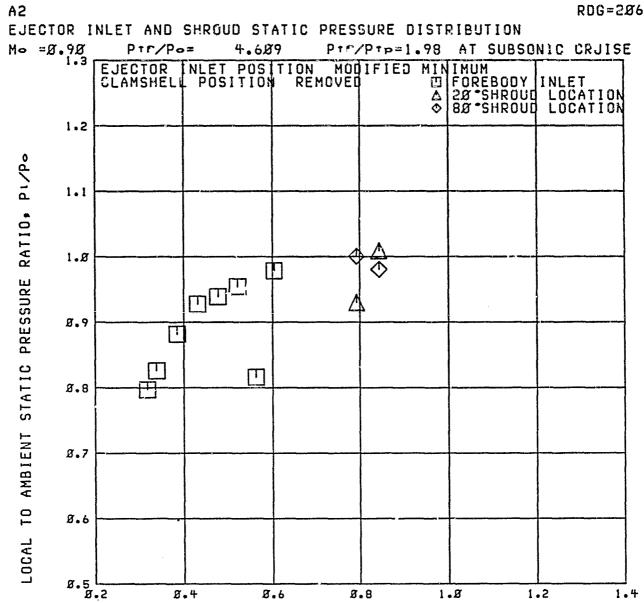
SA RDG=2869 PLUG AND SPLITTER STATIC PRESSURE DISTRIBUTIONS AT SUBSONIC CRUISE 1 Mo =Ø.9Ø Ptr/Po= 4.689 PTC/PTp=1.98 EJECTOR INLET POSITION MODIFIED MINIMUM CLAMSHELL POSITION REMOVED PRIMARY FLUG 8.9 LOCAL STATIC TO PRIMARY TOTAL PRESSURE, PIZPTP 8.8 Ø.7 2.6 ø.5 П П 8.4 0 ø.3 Ø.2 Ø. 1 8.8 Ø.6 ¥.4 Ø.8 1.0 1.2

PRESSURE TAP AXIAL LOCATION: x/dmax

RUN 39



RDG=2Ø69





PRESSURE TAP AXIAL LOCATION, x/dmax

AUN 39

	AND 8.98	SPLITTER PTC/P		C PR			STRIBUI		NS AT	SUB		CRUIS
	I • Ø	EJECTOR CLAMSHEL	NLET L POS	POSI ITION	TIJN RE	MOVEC	IFIED		IMUM PRIMA FLOW	RY F	LUG TTER	LaDa
	267											
p 1/P tp	8.8											
	8.7									······································		
SUR						פ						
PRESSURE.	8.6					М						
	~ -											
TOTAL	Ø.5	14. 811										
	Ø . 4									············		
PRIMARY												
	Ø.3		\sim									
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STATIC	8.2		†									
STA												
LOCAL	8.1	(), (₂ (2))										
ე0 1	8.8 8		<u> </u>							· · · · · · · · ·		
	8	.2 2	T. 4	Ø	• 6	Ø	.8	1	.8	1	•5	1 n

RUN39

LUG I• ≕A		_	r/Pe	. =	3.56	5 4	Ptr/P1	RIBUTIO P=1.94	•	SUB	SONIC	CRUI
	1.2	EJECT CLAMS	OR	NLE POS	r POS	TION REM	MODIF OVE		NIMUM FLOW	SDI 1	TTFD	0.0.
	Ø.9			-						J - C .		
,	ø.8											
P1/P1r	Ø.7											
PRESSURE, I	3. 6							······································				
	ؕ5											
TOTAL	ø.4											
TO FAN	ø.3											
STATIC	ø.2											
	Ø.1											
LOCAL	ø.8	.2	a	. 4	<u></u>	•6	Ø.8		.8	1	.2	1.

RDG=2878 **A2** EJECTOR INLET AND SHROUD STATIC PRESSURE DISTRIBUTION Mo =Ø.9Ø Ptr/Pa= 3.569 Ptr/Ptp=1.94 AT SUBSONIC CRUISE EJECTOR INLET POSITION MODIFIED MINIMUM CLAMSHELL POSITION REMOVED DIFORE □ FOREBODY INLET

Δ 28 SHROUD LOCATION

♦ 88 SHROUD LOCATION 1.2 P1/Po 1.1 RATIO 1.8 0 PRESSURE 8.9 T STATIC П Ø.8 AMBIENT Ø.7 10 8.6 LOCAL Ø.5 L 8.4 8.6 8.8 1.8 1.2 1.4

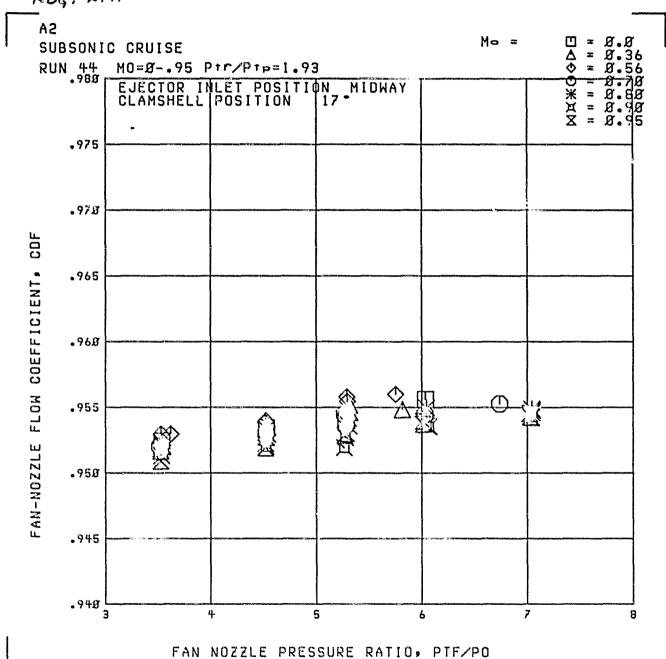
PRESSURE TAP AXIAL LOCATION: x/dmax

RDG 2171-2223

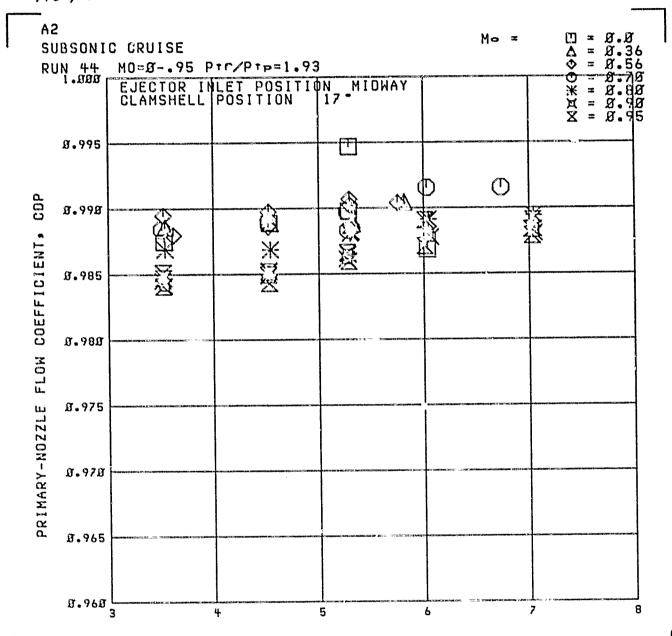
		C CRU.3E)tr/Ptp=1.9	2		Mo =	□ = Ø•Ø Δ = Ø•36 Φ = Ø•5ύ
	1.00	The same of the sa	LET POSITI		YAWD	ACCEPTANCE NAME OF THE PARTY OF	<u>♥ = Ø.7</u> Ø * = Ø.8Ø
	Ø.97						# = Ø.98 X = Ø.95
CFP1	Ø.94			0	◆ ★	_ O *	
	Ø.91	<u> </u>	<u> </u>			<u>¥</u>	
SOEFFICIENT.	Ø.88		<u> </u>	过		*	
	Ø. 95	*	其	X	<u> </u>		
THRUST	ø.82			X			
GROSS	E = 79	其	<u>×</u>				
NOZZLE	Ø.76						
S	Ø.73	X X					
	ø.7ø	4		,	6	7	8
		FAN N	OZZLE PRES	SURE RA	ATIO, PTF/		v

OF POOR QUALITY

Rog. 2171-2223



ROG 2171-2223



FAN NOZZLE PRESSURE RATIO, PTF/PO



RUNI 44

		SPLITTER Ptr/P		PRE 27:		STRIBU /Ptp=1		NS AT SUB	SONIC	CRUI
•	1.8	EJECTOR CLAMSHEL				DWAY		DDIMADY	1116	
	ؕ9						<u> </u>	PRIMARY I	TTER	LaDa
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N L	8.7									
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PKIMAKY	ؕ4									
	ؕ3		0		Ш					
21A11C 10	Ø.2			<u>ן</u> כ		1				
	ؕ1									
LUCAL	8. <i>8</i> R	-2	3.4	ø.	6 £	r.8	i	.ø 1	•5	

LUG - =£		SPLITTER. Ptr/P) =	5.27	2 F	DISTRI TC/PTP		NS AT	SUBS	SONIC	CRUI
		EJECTOR CLAMSHEL	NLET POSI	POS!	TION 1 17°	MIDWAY	Δ	FLOW	SPLI	TTER	0.0.
	Ø . 9										
<u>د</u>	Ø.8			Δ							
PL/PTF	Ø.7							·			
PRESSURE.	Ø.6										
	Ø.5				Δ		· · · · · · · · · · · · · · · · · · ·				
V TOTAL	Ø.4										
TO FAN	Ø.3						, , , , , , , , , , , , , , , , , , , 				
	ؕ2				Δ				· · · · · · · · · · · · · · · · · · ·		
LOCAL STATIC	Ø. 1		-	. 4.							
L ₀	8.8 8	.s &	. 4	ø.	. 6	Ø.8	1	.ø	1 .	. 2	1.



RDG=2173 **SA** EJECTOR INLET AND SHROUD STATIC PRESSURE DISTRIBUTION Mo =Ø.94 1.3 Ptr/Po= 5.272 Ptr/Ptp=1.97 AT SUBSONIC CRUISE EJECTOR INLET POSITION MIDWAY CLAMSHELL POSITION 17 FOREBODY I 20°SHROUD 80°SHROUD INLET LOCATION LOCATION A 1.2 LOCAL TO AMBIENT STATIC PRESSURE RATIO, PL/Po 1.1 Ш 口 1.8 Ø.9 Ø.8 M Ø.7 8.6 Ø.5 L 1.2 B. 4 8.6 Ø.8 1.8 1.4

A2 PLUG	S AND	SPLITTER	STATI	C PR	ESSU				NS AT S	SUBS		2=209 CRU I	
Mo =	98 1.8	PTC/PO EJECTOR CLAMSHELL		3.53 POSI			PTP=1.	95					
	ø.9							ÐÐ	PRIMAR FLOW S	Y F	LUG	LaDa	
P1/PTP	Ø.8			N									
PRESSURE	Ø.7				(D							
PRES!	Ø.6					Ш							
TOTAL F	ø.5			Ш		<u> </u>							
	ø . 4					•		<u> </u>					
TO PRIMARY	ø.3		0										
STATIC	a•s											•	
	8.1			:									
LOCAL	8.8 8	.2 ø	.4	æ	•6		.8	1	.8	1	.2	1	.4
		PRESSI	JRE T	AP A>	CIAL	LOCAT	TION, ×	/dm	х				

	S AND =Ø.9Ø	SPLITTER Ptr/Pa			ISTRIBUTIO	NS AT SUB	RDG=;	
110	1.3	EJECTOR CLAMSHELL			DWAY	FLOW SPL	TTER O.D	
	8.9							
Ţ.	8.8		Δ					
P1/P1r	Ø.7							
PRESSURE,	Ø.6			377				
	Ø.5			Δ				
I TOTAL	ø.4							
TO FAN	ø.3			Δ				-
TATIC	ø.2							
LOCAL STATIC	Ø.1							-
	8.B	·5 &	<u> </u>	.6	7. 8 1	.Ø 1	.2 1	1.4
		PRESSI	JRE TAP AX	IAL LOCA	TION: ×/dm	nā×		

RDG=2184 42 EJECTOR INLET AND SHROUD STATIC PRESSURE DISTRIBUTION Mo =Ø.9Ø Ptr/Po= 3.537 Ptr/Ptp=1.95 AT SUBSONIC CRUISE EJECTOR INLET POSITION MIDWAY CLAMSHELL POSITION 17 □ FOREBODY INLET

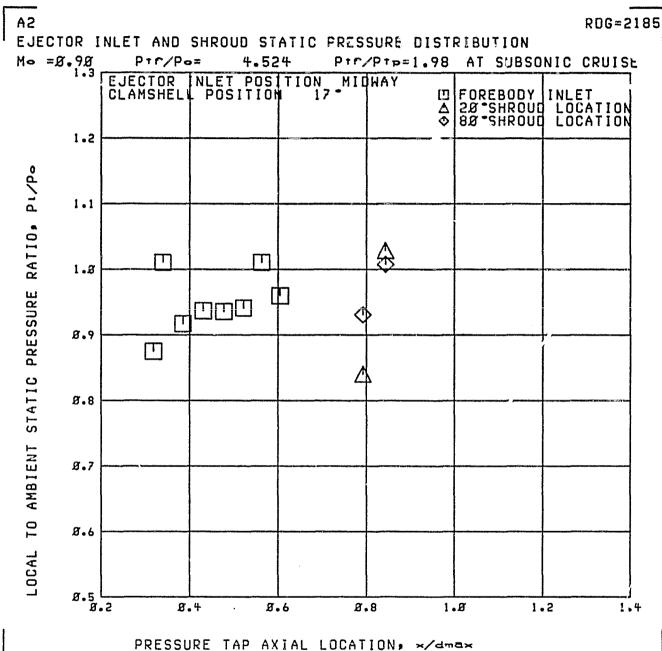
Δ 28 SHROUD LOCATION

♦ 88 SHROUD LOCATION 1.2 P1/Po 1.1 RATIO. Ш П 1.0 PRESSURE Ø.9 Ш STATIC Ø.8 TO AMBIENT 8.7 8.6 LOCAL Ø.5 L Ø.4 1.4 Ø.6 Ø.8 1.8 1.2

- =Ø		SPLITTER P+r/P	* 4	.524	- Pt	r/Ptp=		N3 A1 300	20410	UK 4,1
		EJECTOR CLAMSHEL	NLET P POSIT	051 101	TION M	YAWDI	۵	PRIMARY FLOW SPI	PLUG	
	Ø.9			\neg				FLOW SPI	TILER	lelle
414/14 414/14	ؕ8	, <u>, , , , , , , , , , , , , , , , , , </u>			M					
	Ø.7									
PKE SSUKE .	ؕ6				······································					
I O I AL	ø.5				0	•				
	ؕ4		□		四					
PKI MAKY	ø.3		0							
<u> </u>]						
S 1 A 1 L	8.2				**************************************					
	Ø.1									
LUCAL	ø.ø		• 4	ø.		Ø.8		.ø 1	•2	1.

RUN 44

=Ø	.98 1.8		r/Pe		4.52		Ptr/Pti		1		r	
		CLAMS	HEL	POS	ITIO	TION 17	MIDWAY		FLCW	SPL	TTER	0.0
	Ø.9										*	
	ø.8		***************************************		Δ						•	
	Ø.7											
	Ø.6											<u>.</u>
	ø.5		· · · · · · · · · · · · · · · · · · ·	,	· · · · · · · · · · · · · · · · · · ·	Δ						
	ؕ4											·
	ø.3				· · · · · · · · · · · · · · · · · · ·							
	ø.2											
	Ø.1							,				
	8.8 8.											



RUN 44

										\\ \(\)
A2 PLU	G AND	SPLITTER	STATIC	PRE	ESSURE DI	STRIBL	JT I OI	NS AT SI		RDG=218 CRUIS
	=0.90	P+r/Pa	• = 5	.26	9 Ptr	/Ptp=1		.,,		
	1.8	EJECTOR CLAMSHELI	NLET P	OSI	TION MI	QHAY				
			10511		• •		Ш	PRIMARY	֡֓֞֝֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	
	8.9	{						FIUM SE	1 1 1 FR	
PL/PTP	Ø.8	,,					·			
P						Ì				
<u>.</u> ய	8.7					<u> </u>				
SUR										
PRESSURE.	8.6									
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TOTAL	Ø.5					<u> </u>				
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LOCAL										
ب	8.8 8	·S &	· +	ø.	6 1	1.8	1	•8	1.2	1.4
		PRESSU	JRE TAP	ΑX	IAL LOCA	TION,	×/dm	a a		

RDG=2186 **SA** PLUG AND SPLITTER STATIC PRESSURE DISTRIBUTIONS AT SUBSONIC CRUISE Mo =8.98 Ptr/Po= 5.269 Ptr/Ptp=1.97 EJECTOR NLET POSITION MIDWAY CLAMSHELL POSITION 17 A FLOW SPLITTER O.D. 8.9 ø.8 Δ LOCAL STATIC TO FAN TOTAL PRESSURE. PIZPIT 8.7 8.6 ø.5 Δ 8.4 ø.3 8.2 \triangle Ø.1 8.8 g.4 8.6 ø.8 1.8 1.2 1.4

45 RDG=2186 EJECTOR INLET AND SHROUD STATIC PRESSURE DISTRIBUTION Mo =Ø.9Ø 1.3 Ptr/Ptp=1.97 Ptr/Po= 5,269 AT SUBSONIC CRUISE EJECTOR INLET POSITION MIDWAY CLAMSHELL POSITION 17 FOREBODY INLET 20°SHROUD LOCATION 80°SHROUD LOCATION $\overline{\Delta}$ 1.2 1.1 RATIO \triangle П П 1.0 PRESSURE B.9 STATIC Ø.8 AMBIENT Ø.7 ១ Ø.6 LOCAL Ø.5 L 8.4 8.6 Ø.8 1.0 1.2 1.4 PRESSURE TAP AXIAL LOCATION, x/dmax

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FOOR QUALITY

RDG=2187 **A2** PLUG AND SPLITTER STATIC PRESSURE DISTRIBUTIONS AT SUBSONIC CRUISE 1 Mo =Ø.89 Ptr/Po= 6.848 PTF/PTP=1.96 EJECTOR INLET POSITION MIDWAY CLAMSHELL POSITION 17. D PRIMARY FLUG O FLOW SPLITTER Ø.9 LOCAL STATIC TO PRIMARY TOTAL PRESSURE, PIZPTP Ø.8 Ø.7 Ø.6 Ø.5 Ø.4 O Ø.3 1 Ø.2 Ø. 1 8.8 L 1.4 Ø.4 Ø.6 Ø.8 1.8 1.2 PRESSURE TAP AXIAL LOCATION, x/dmax

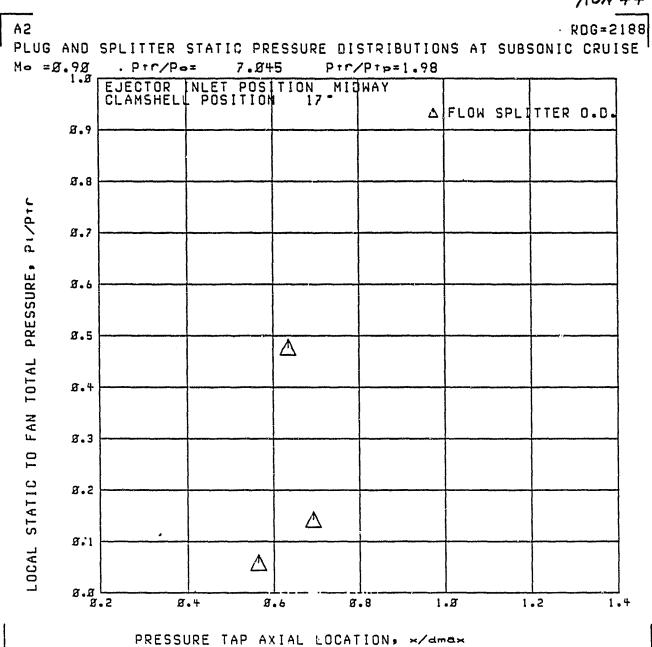
A2 PLUG AND Mo =8.89				ISTRIBUTI ~/Ptp=1.90		ROW 4 ROG=218 SONIC CRUIS
1.5	EJECTOR CLAMSHELI	NLET POS POSITIO	TION MI	DWAY	S FLOW SPL	TTER O.D.
3. 9)	elepanin manakan manakan panin (Japakya kan hidika ci dada hi			verver – versig vland kan aparasi gardigal ing halih ARRA (Ale Com BAC). Na	
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10 FAN	}				aphaco da ango Ciberton Habino Nilayan Hati an Marko Cine y d	
			Δ			
LOGAL STATIC				The second secon		
9.1 0	J.2 B	.+ B	• 6	8.8	1.8	.2 1.4

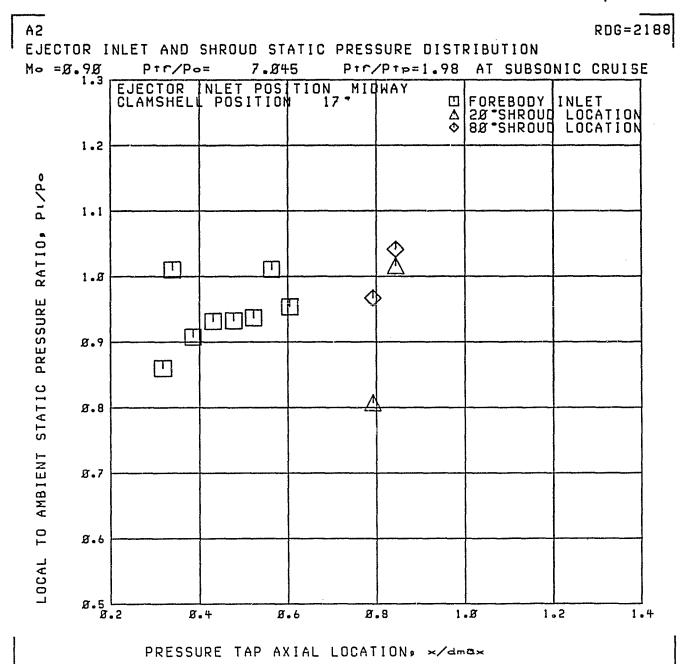
RDG=2187 SA EJECTOR INLET AND SHROUD STATIC PRESSURE DISTRIBUTION Mo =Ø.89 1.3 PTC/Pe= 6.548 Ptr/Ptp=1.96 AT SUBSONIC CRUISE EJECTOR INLET POSITION MIDHAY CLAMSHELL POSITION 17 FOREBODY 28 SHROUD 88 SHROUD INLET LOCATION LOCATION O 1.2 Pi/Po 1.1 RATIO. ⋪ Ш Ш 1.8 STATIC PRESSURE 8.9 8.8 LOCAL TO AMBIENT 8.7 8.6 8.5 L 1.2 1.4 Ø.4 8.6 g.8 1.8 PRESSURE TAP AXIAL LOCATION, x/dmax

RUN 44

												11011	• /
	A2											2DG = 2	
			SPLITTER						NS AT	SUB	SONIC	CRUI	SE
	Mo = £	1.8	Ptr/Pa		7.84			tp=1.98	,				l
			EJECTOR CLAMSHEL	Pos	ITION	TION 17	· MI HMI						ĺ
							1	ЭВ	PRIMA FLOW	RYF	LUG	t.n.	
		Ø.9											ĺ
	Δ												
	P1/Ptp	Ø.8									ļ		
	<u> </u>												ĺ
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	RE.	Ø.7											
	SU			l									
	PRESSURE.	8.6								,	 		
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	TOTAL	ø.5											1
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	STATIC												l
		Ø.1											ĺ
	LOCAL	20 0 1											ĺ
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		8.8 8	я	<u>.</u> 4	8.	L	Ø.8	1.	.8	1	•5	l . 1	• 4
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			PRESSI	JRE TA	AP AX	IAL LO	CATIO	1N: ×/dm	a×-				,
1													

RUN 44





	Ø.8Ø	Ptr/Pa	> =	5.29	9 F	DISTRIE Tr/Ptp=		NS AT SUB	SONIC CRU
	1.8	EJECTOR CLAMSHEL	NLET POSI	POS: TION	TION 17	MIDWAY			
	ø.9						<u>e</u>	PRIMARY FLOW SPL	FLUG
P1/P1P	ø.8								
	Ø.7								
PRESSURE.	Ø.6				•				
101AL	ø.5								
PKIMAKY 10	5. 4				٥]			
х	ø.3		0				······		
SIA110 1U	ø.2		[<u> </u>	
LUCAL SIA	8.1								
ר ה	8.8 8.								

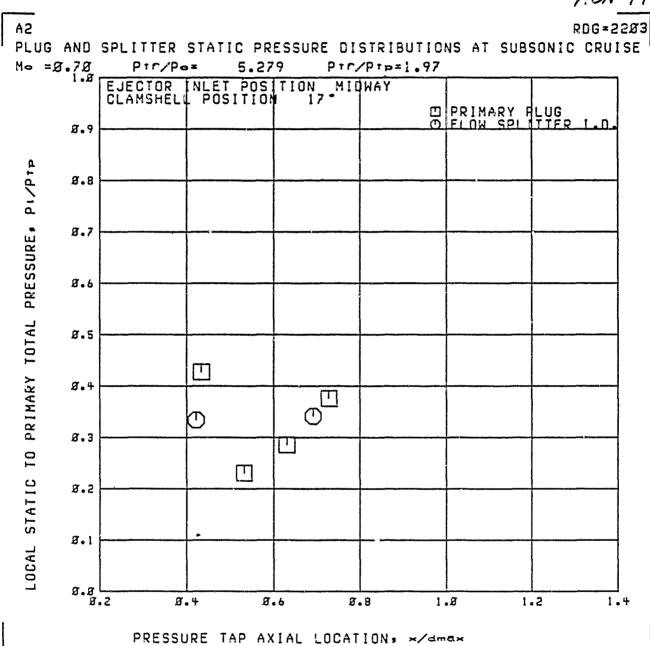
RDG=2197 42 EJECTOR INLET AND SHROUD STATIC PRESSURE DISTRIBUTION Mo =Ø.8Ø Ptr/Po= 5.299 Ptr/Ptp=1.96 AT SUBSONIC CRUISE EJECTOR INLET POSITION MIDWAY CLAMSHELL POSITION 17 FOREBODY INLET 20 SHROUD LOCATION 80 SHROUD LOCATION Δ 1.2 P1/Po 1.1 RAT10, Φ Ш 1.8 LOCAL TO AMBIENT STATIC PRESSURE П Ø.9 Ø.8 Ø.7 Ø.6 Ø.5 L 8.6 1.0 1.2 1.4

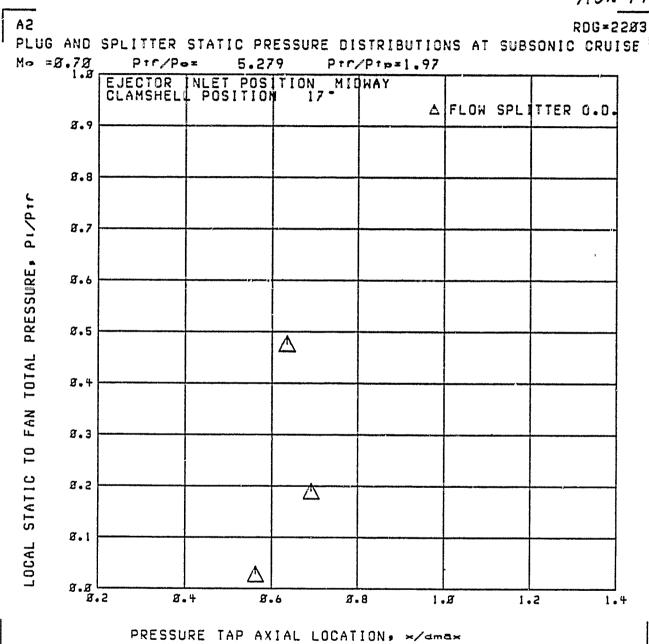
Ø.8

PRESSURE TAP AXIAL LOCATION, x/dmax

8.4

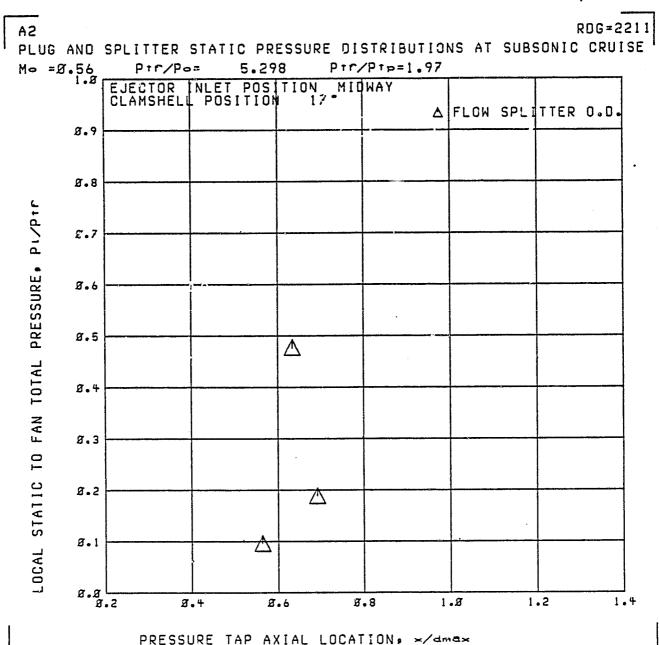
FUN 44



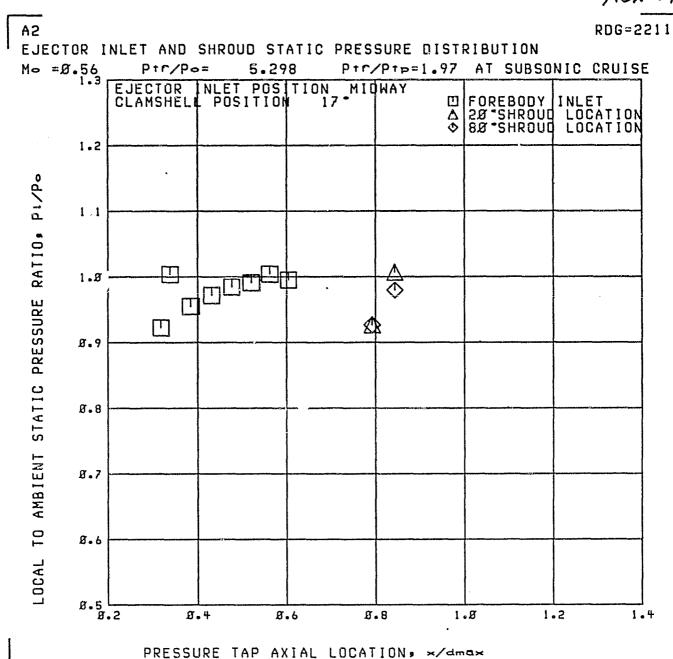


A2							RDG=22Ø
	=8.78	NLET AND	SHROUD ST		SURE DIST		NIC CRUISE
	i.3	EJECTOR CLAMSHELI	NLET POS		WAY Œ Φ	FOREBODY 28 *SHROU	INLET
	1.2						
P1/P0	1.1						
RATIO	1.8	To an and a second			♣		
PRESSURE	Ø . 9				>		
STATIC	ؕ8				Andrews of the second of the s		
AMBIENT	ø.7						5
10	8.6						
LOCAL	ø•5	.2 8	• 4 Ø	.6 ន	-6	1.8 1	.2 1.4
		PRESSI	URE TAP A	KIAL LOCA	TION, ×/d	mā×	

A2 PLU	JG AND	SPLITTER	STATIC	PRESSURI	E DISTRI	BUTIO	NS AT	SUBSONI	RDG=2211
	=Ø.56	PTC/P. EJECTOR CLAMSHEL	o= 5.	298 35 TION	Ptr/Ptp				
	2. 9	CLAMSHEL	POSIT	ION 17		<u></u>	PRIMA EL OW	RY FLUG	2 1 - 11 -
P1/P1P	Ø.3								
	3.7								
PRESSURE,	Ø . 6		3			·····			
TOTAL	Ø.5					**************************************			
PRIMARY TO									
TO PRIM			0						
LOCAL STATIC	7 1								
, 07	8.8	r.2	3.4	8.6	8.8	1	.8	1.2	1.4



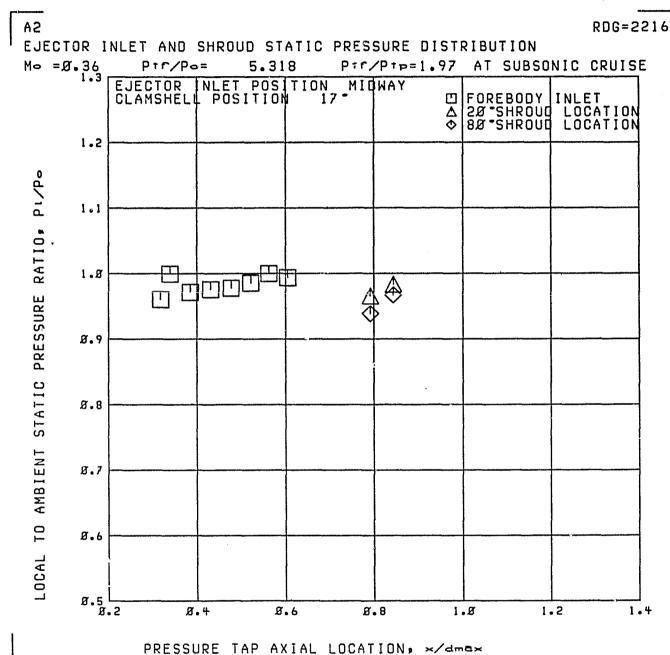
RUN 44



RDG=2216 45 PLUG AND SPLITTER STATIC PRESSURE DISTRIBUTIONS AT SUBSONIC CRUISE Mo =Ø.36 Ptr/Po= Ptr/Ptp=1.97 5.318 EJECTOR | NLET POSITION CLAMSHELL POSITION 17 MIDWAY PRIMARY PLUG Ø.9 PRIMARY TOTAL PRESSURE, PIZPTP Ø.8 Ø.7 Ø.6 Ø.5 Ø.4 \odot ø.3 LOCAL STATIC TO 8.2 8.1 a.a._ B.4 1.2 1.4 8.6 8.8 1.0 PRESSURE TAP AXIAL LOCATION: x/dmax

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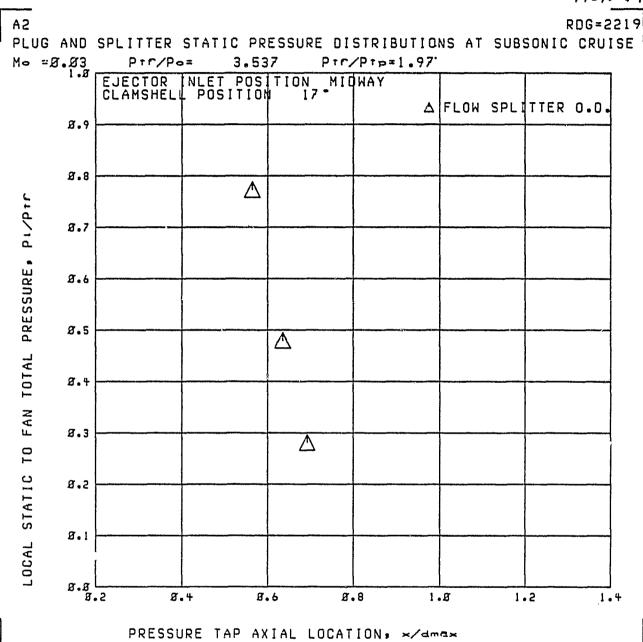
A2 PLUG AND SPLITTER STATIC PRESSURE DISTRIBUTIONS AT SUBSONIC CRUISE Mo =Ø.36 Ptr/Po= 5.318 Ptr/Ptp=1.97 EJECTOR NLET POSITION MIDWAY CLAMSHELL POSITION 17 A FLOW SPLITTER O.D. 9.9 Ø.8 LOCAL STATIC TO FAN TOTAL PRESSURE, PIZPIT B.7 8.6 Ø.5 9.4 **3.3** 8.2 Δ ø.i 8.8 L Ø.4 8.6 Ø.8 1.8 1.2 1.4

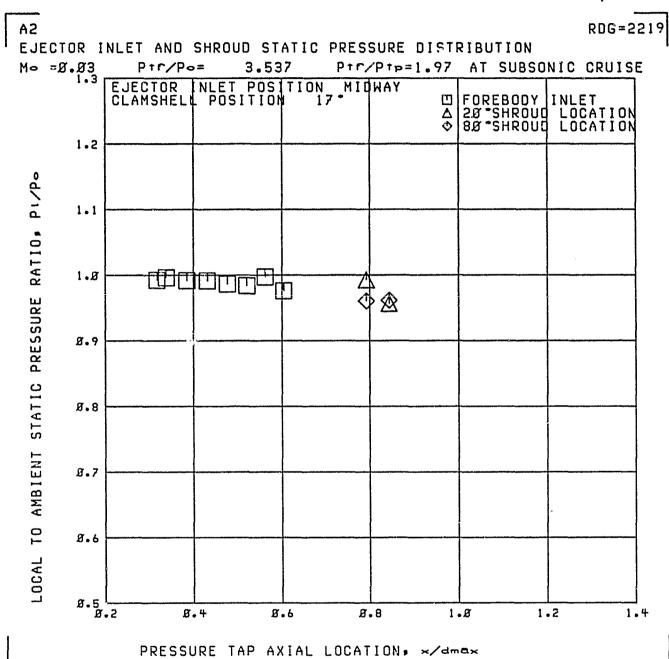


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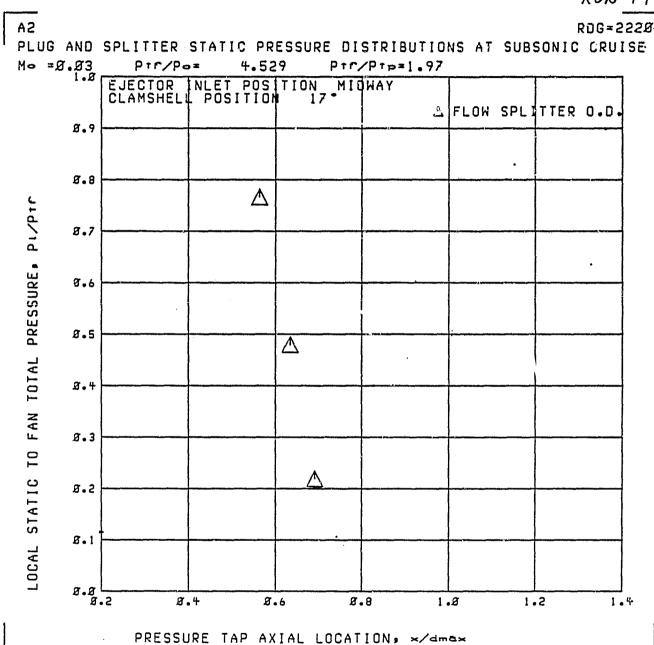




RUN 44

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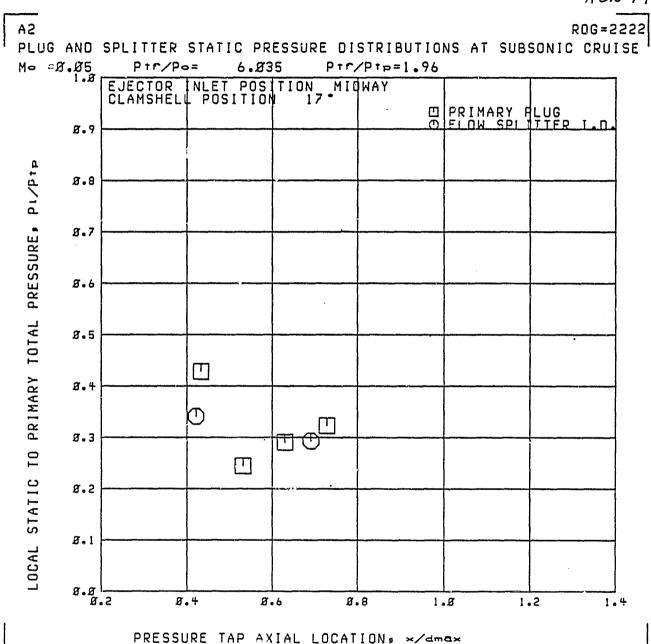
RDG=2228 **A2** EJECTOR INLET AND SHROUD STATIC PRESSURE DISTRIBUTION Mo =Ø.Ø3 1.3 Ptr/Po= 4.529 Ptr/Ptp=1.97 AT SUBSONIC CRUISE EJECTOR INLET POSITION MIDWAY CLAMSHELL POSITION 17 FOREBODY INLET 20 SHROUD LOCATION 80 SHROUD LOCATION \Box $\overline{\Delta}$ 1.2 P1/Po 1.1 RATIO 1.8 **♦ ⊗** PRESSURE Ø.9 STATIC Ø.8 TO AMBIENT Ø.7 Ø.6 Ø.5 L 1.4 Ø.4. Ø.8 1.2 Ø.6 1.8

RDG=2221 A2 PLUG AND SPLITTER STATIC PRESSURE DISTRIBUTIONS AT SUBSONIC CRUISE Ptr/Ptp=1.98 Mo =Ø.Ø5 1.8 5.285 Ptr/Po= EJECTOR INLET POSITION MIDWAY CLAMSHELL POSITION 17 D PRIMARY FLUG OF ON SPLITTER Ø.9 PRIMARY TOTAL PRESSURE, PL/Ptp 8.8 8.7 8.6 Ø.5 П 0 8.4 \odot 0.3 LOCAL STATIC TO 8.2 8.1 8.8 1.4 8.4 Ø.8 1.8 1.2 8.6

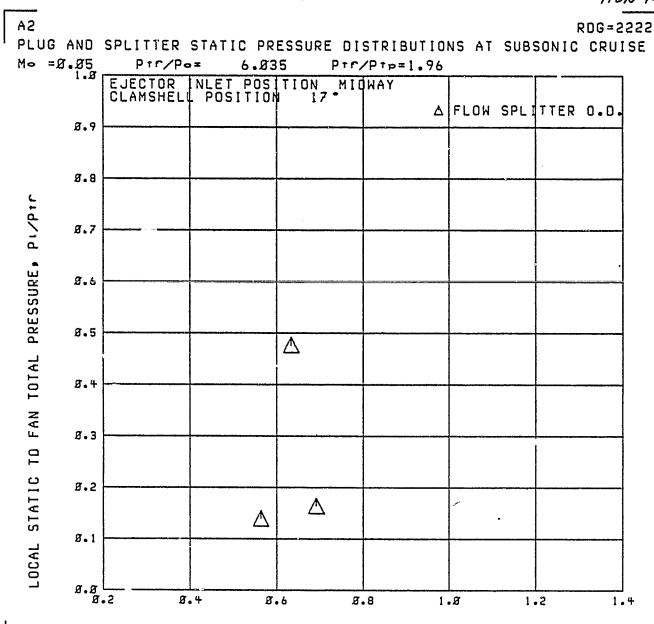
RUN 44

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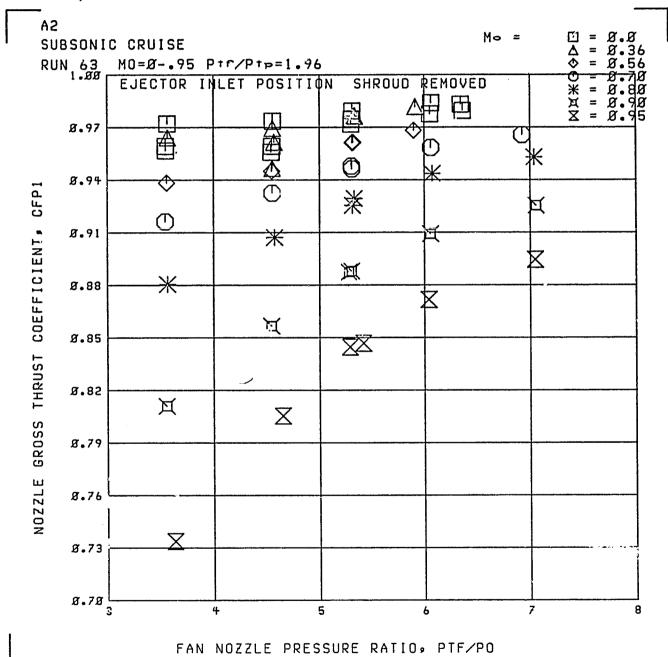
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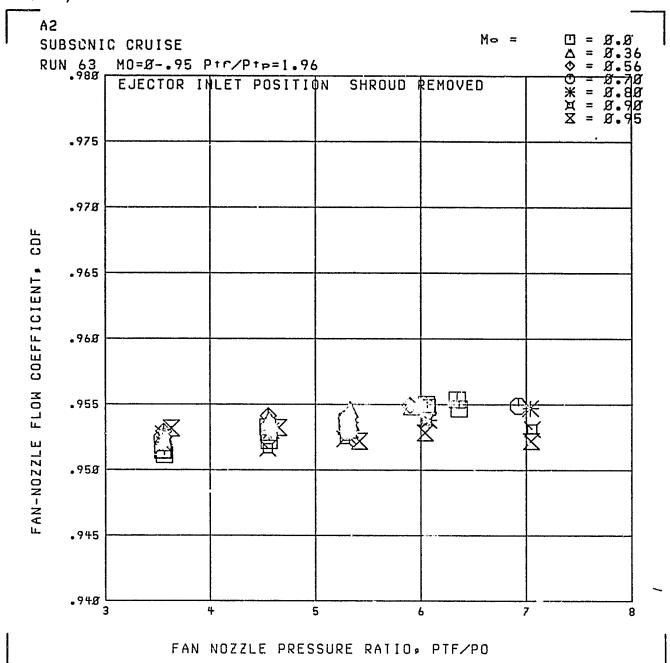
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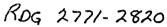


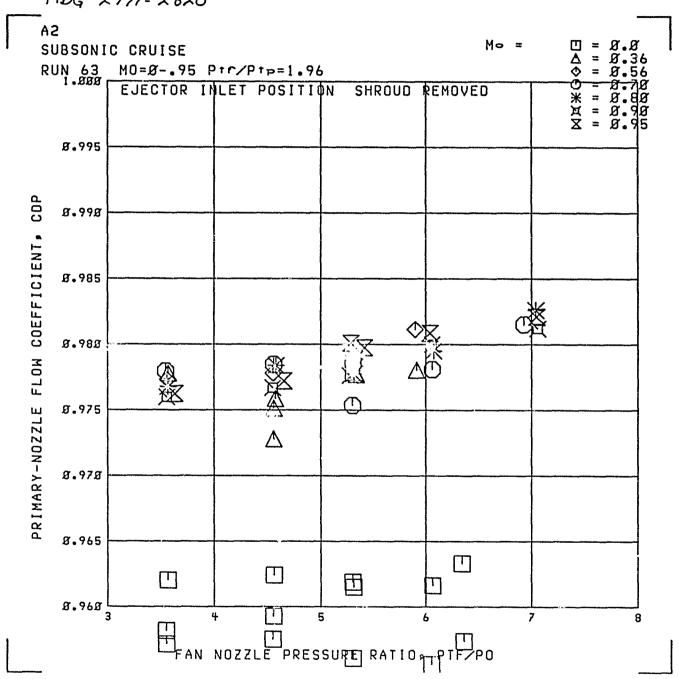
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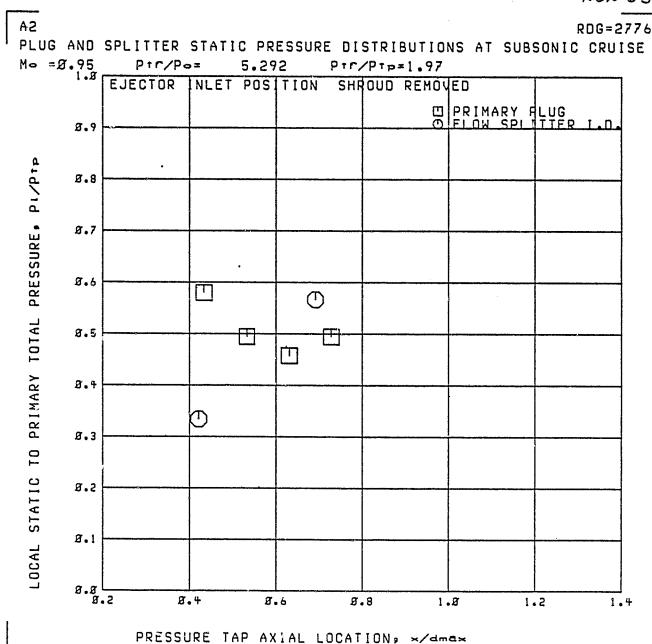




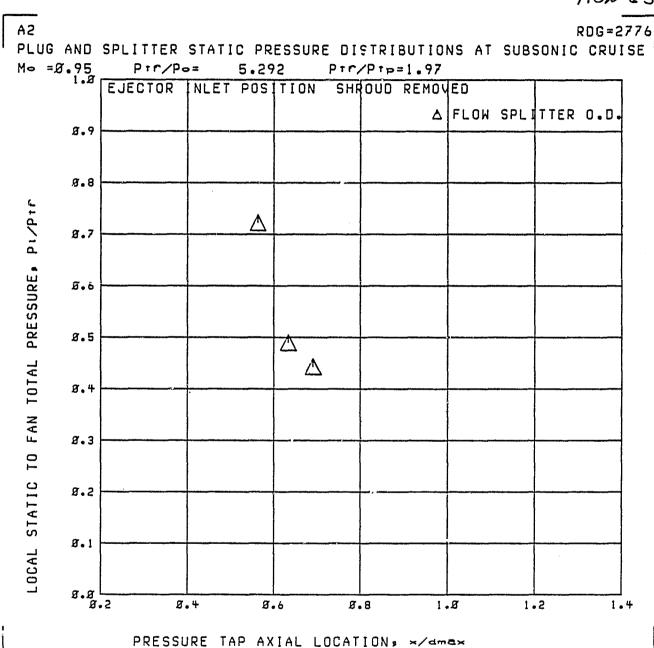


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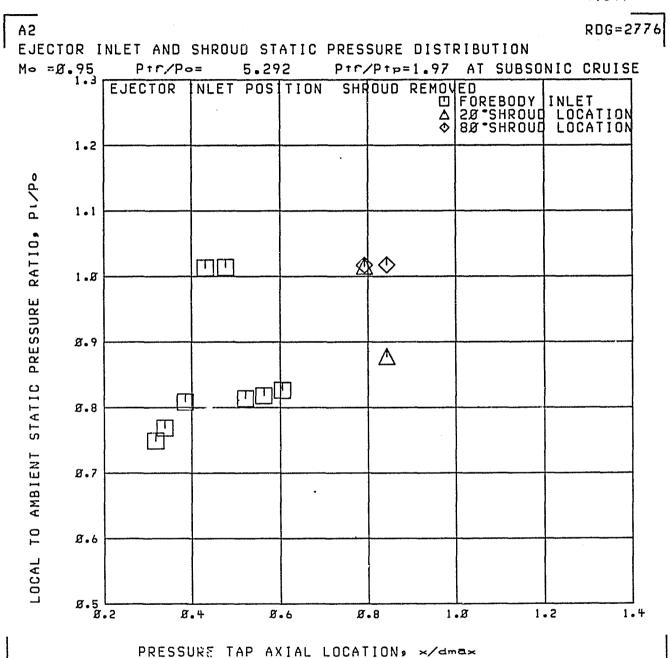
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RUN 63



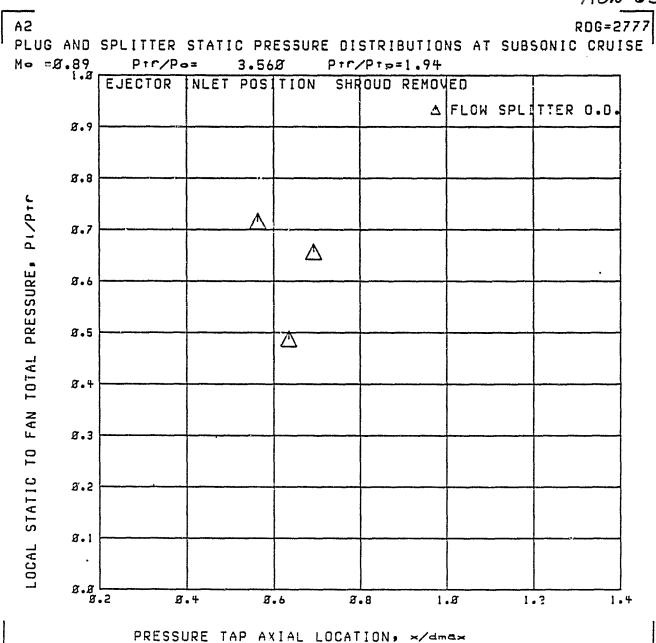
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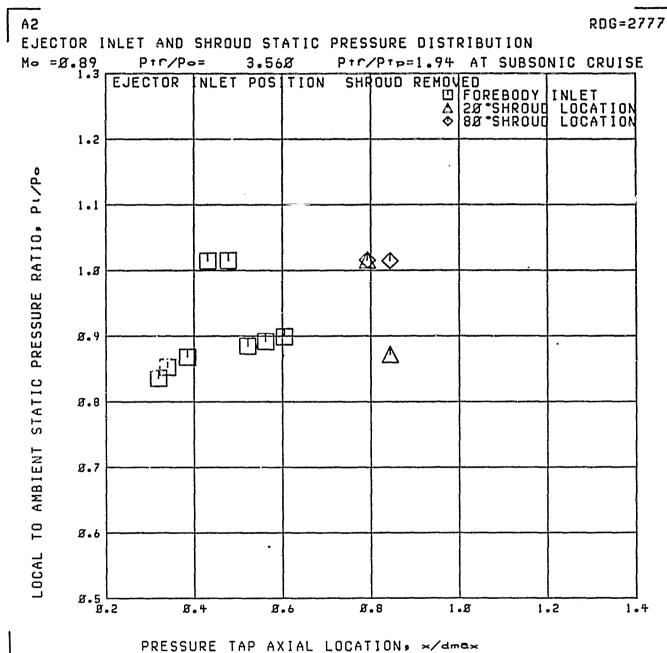
RUN 63

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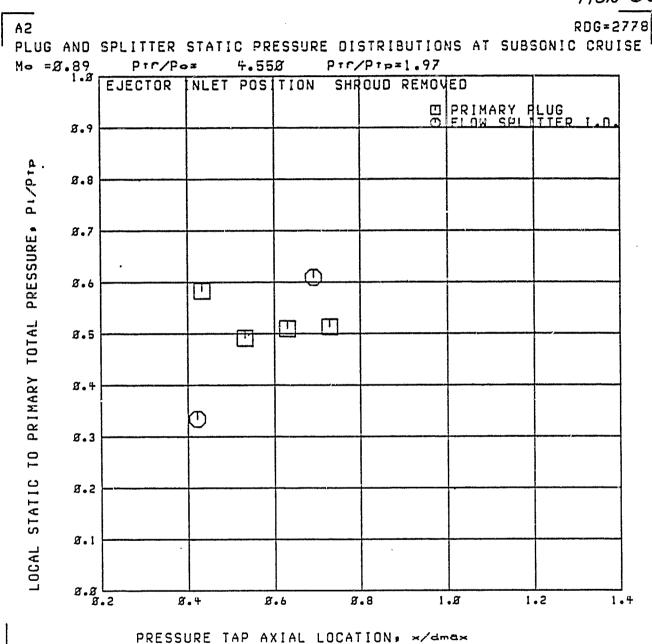
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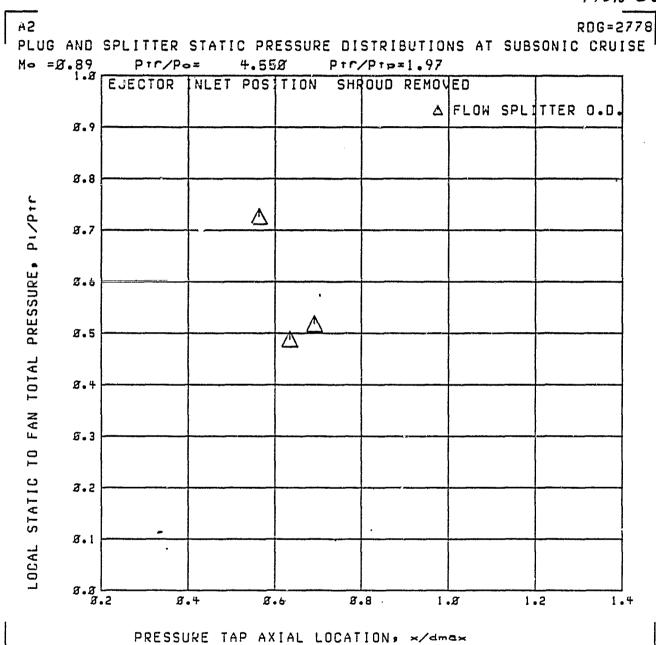
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RUN 63



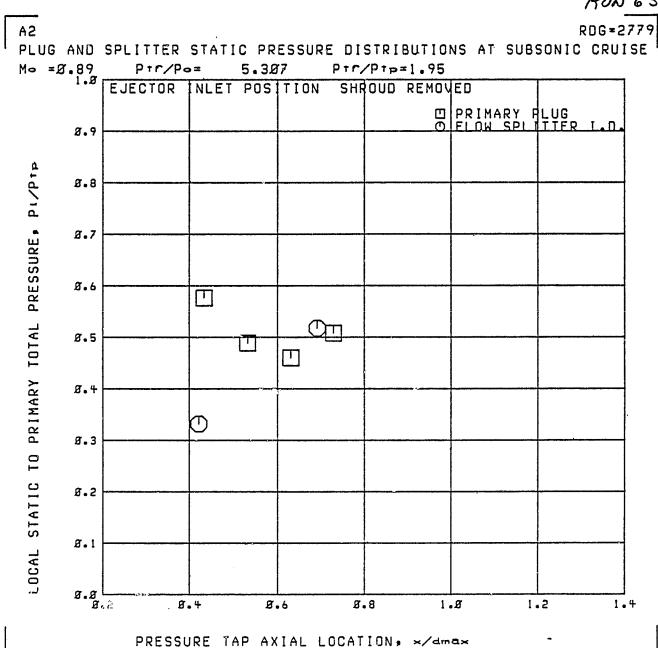
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RUN 63 RDG=2778

A2 EJECTOR INLET AND SHROUD STATIC PRESSURE DISTRIBUTION Mo =Ø.89 1.3 Ptr/Po= 4.55Ø Ptr/Ptp=1.97 AT SUBSONIC CRUISE EJECTUR NLET POSITION SHROUD REMOVED FOREBODY INLET 20°5HROUD LOCATION 80°5HROUD LOCATION 1.2 P1/Po 1.1 RATIO. ШШ 1.8 STATIC PRESSURE Ø.9 Δ 8.8 LOCAL TO AMBIENT Ø.7 Ø.6 Ø.5 L Ø.4 1.2 1.4 8.6 Ø - 8 1.8

RUN 63



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A2 RDG=2779 EJECTOR INLET AND SHROUD STATIC PRESSURE DISTRIBUTION Mo =Ø.89 5.307 Ptr/Po= Ptr/Ptp=1.95 AT SUBSONIC CRUISE SHROUD REMOVED

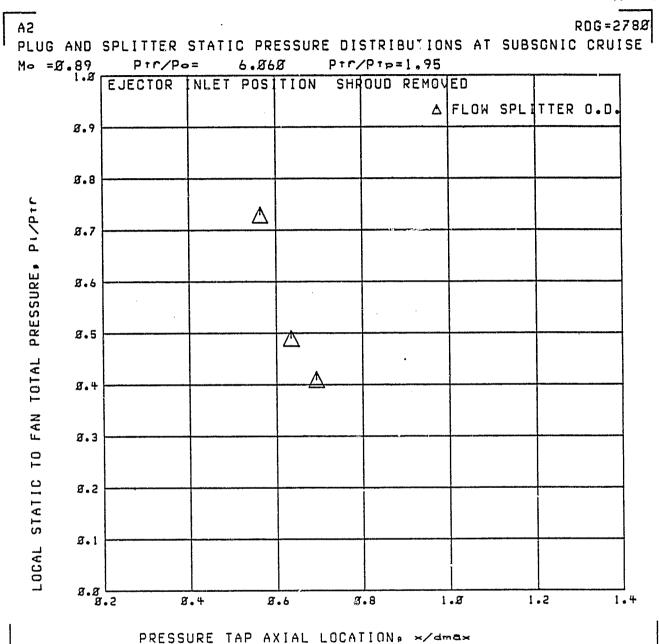
D FOREBODY INLET

A 20°SHROUD LOCATION

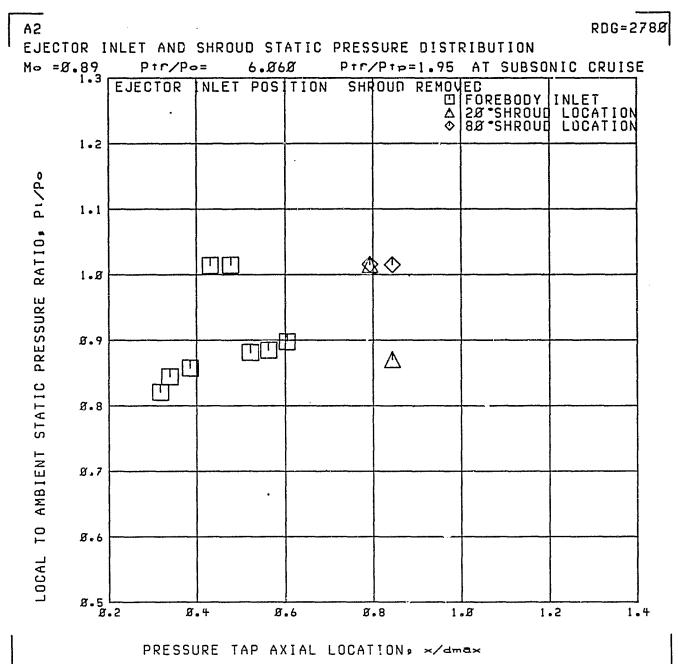
SB SHROUD LOCATION EJECTOR NLET POSITION 1.2 1.1 LOCAL TO AMBIENT STATIC PRESSURE RATIO. ПП 外办 1.8 Ø.9 Δ Ø.8 Ø.7 5.6 Ø.5 L 8.4 Ø.6 Ø.8 1.0 1.2 1.4 PRESSURE TAP AXIAL LOCATION, x/dmax

RUN 63

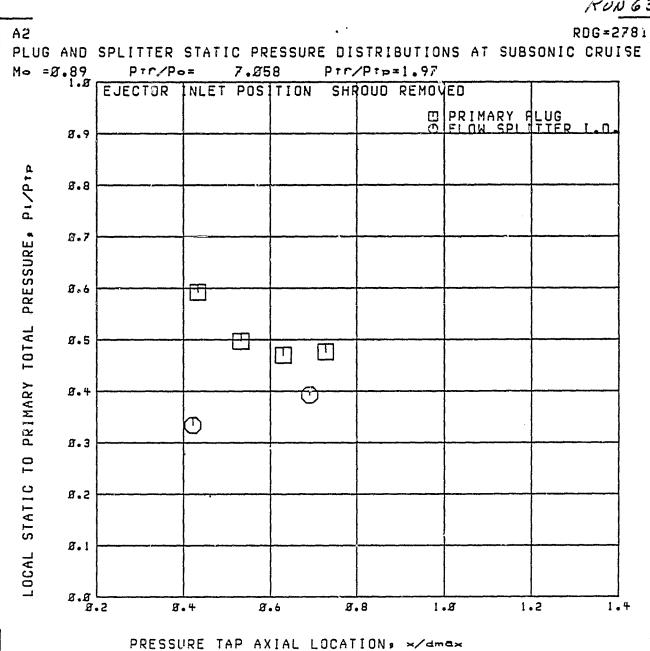
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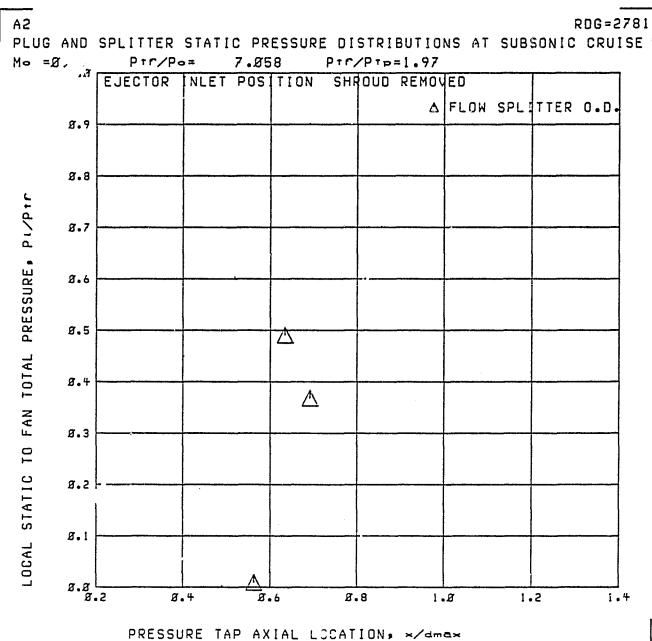


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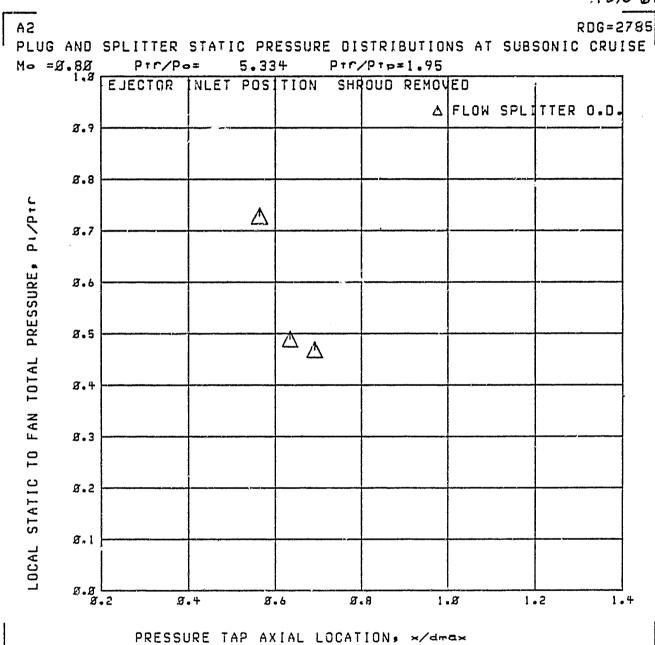


RUN 63

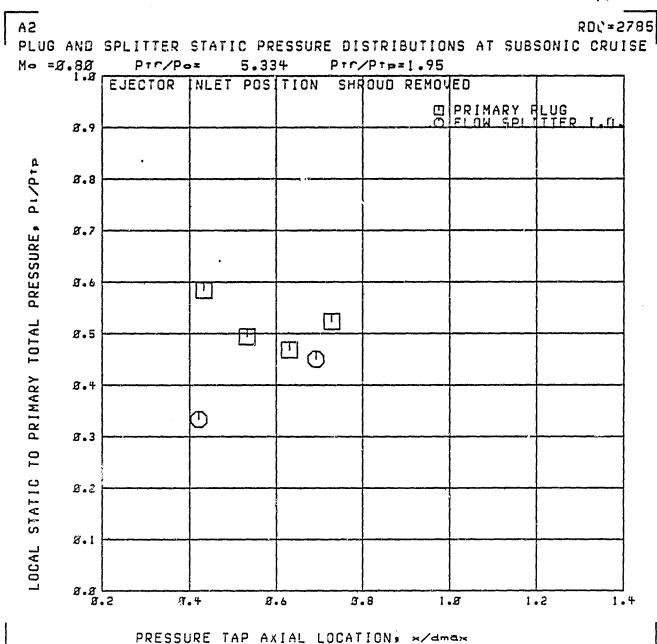


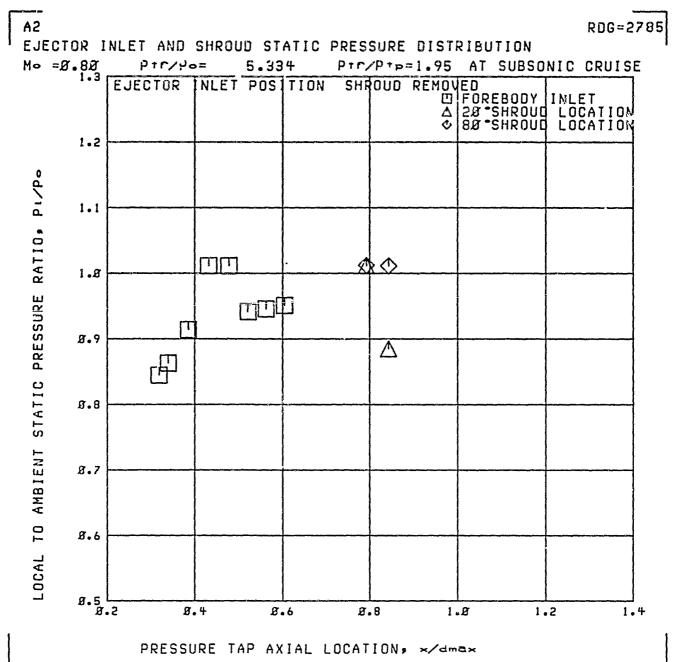
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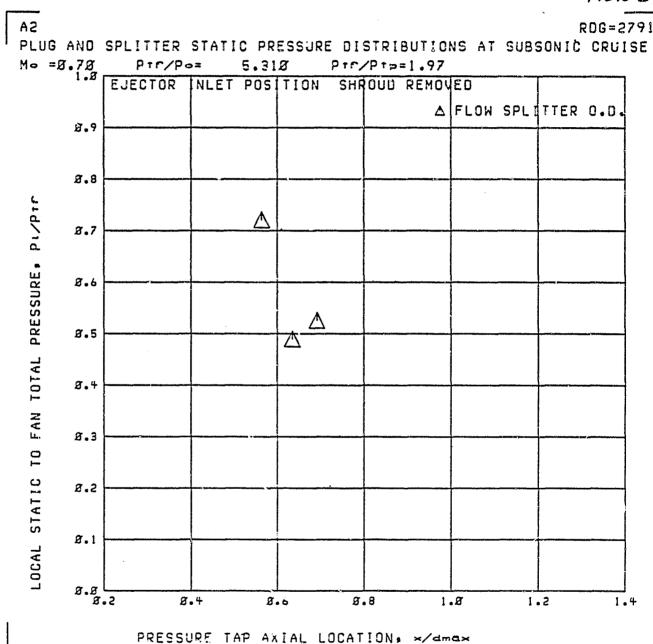


RUN 6:





RUN 63



P'UG AND SPLITTER STATIC PRESSURE DISTRIBUTIONS AT SUBSONIC CRUISE Ptr/Ptp=1.97 5.318 PTF/Po= SHROUD REMOVED INLET POSITION PRIMARY FLUG Ø.9 LOCAL STATIC TO PRIMARY TOTAL PRESSURE, PIZPTP Ø.8 Ø.7 Ø.6 口 Ø.5 9.4 Ø.3 ø.2 Ø.1 g.g ____ 1.2 Ø.8 8.6 PRESSURE TAP AXIAL LOCATION: >/dmax

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RDG=2791 A2 EJECTOR INLET AND SHROUD STATIC PRESSURE DISTRIBUTION Ptr/Po= 5.318 Ptr/Ptp=1.97 AT SUBSONIC CRUISE SHROUD REMOVED

D FOREBODY

A 20 SHROUD

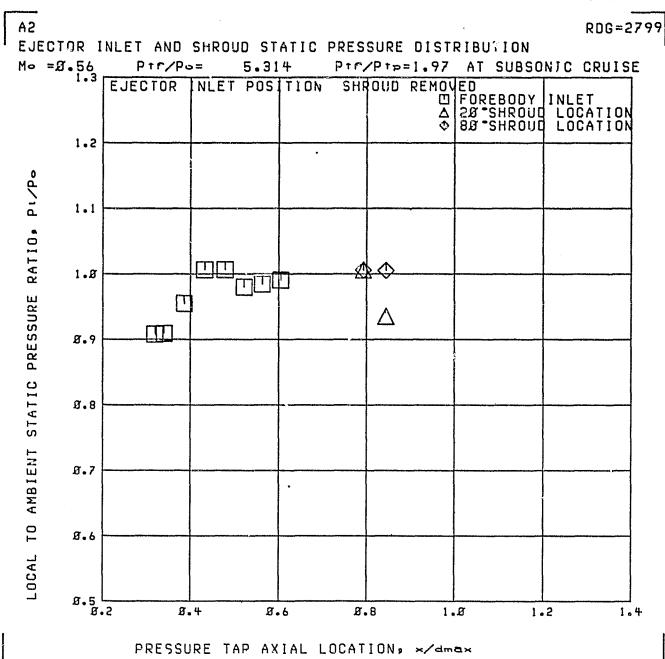
B SHROUD EJECTOR INLET POSITION INLET LOCATION LOCATION 1.2 P1/Po 1.1 RATIO. لبالبا 1.0 LOCAL TO AMBIENT STATIC PRESSURE Ø.9 田 Ø.8 Ø.7 8.6 ø.5 L 8.4 Ø.6 Ø.8 1.8 1.4

RUN 63

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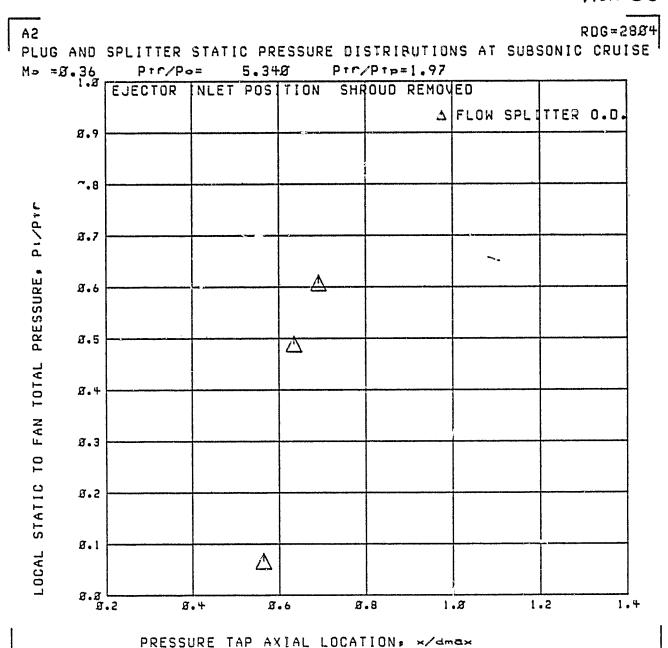
SA RDG=2799 PLUG AND SPLITTER STATIC PRESSURE DISTRIBUTIONS AT SUBSONIC CRUISE Mo =Ø.56 5.314 Ptr/Ptp=1.97 Ptr/Po= EJESTOR INLET POSITION SHROUD REMOVED PRIMARY PLUG Ø.9 LOCAL STATIC TO PRIMARY TOTAL PRESSURE, PIZPIP Ø.8 8.7 8.6 Ø.5 Ш 8.4 0 \odot Ø.3 ø.2 8.1 8.8 L 8.4 E-6 Ø.8 1.0 1.2 1.4 PRESSURE TAP AXIAL LOCATION: x/dmax

RUN 63



RDG=28Ø4 A2 PLUG AND SPLITTER STATIC PRESSURE DISTRIBUTIONS AT SUBSONIC CRUISE Me =0.36 5.34Ø Ptr/Po= Ptr/Ptp=1.97 INLET POSITION SHROUD REMOVED EJECTOR PRIMARY PLUG Ø.9 LOCAL STATIC TO PRIMARY TOTAL PRESSURE, PIZPTP Ø.8 Ø.7 8.6 П Ø.5 Ø.4 (1) Ø.3 ø.2 Ø.1 8.8 L ø.8 1.4 8.4 8.6 1.8 1.2

RUN 63



RDG=28Ø4 **A2** EJECTOR INLET AND SHROUD STATIC PRESSURE DISTRIBUTION Ptr/Ptp=1.97 AT SUBSONIC CRUISE Ptr/Po= 5.348 SHROUD REMOVED

D FOREBODY I

A 20 SHROUD

SHROUD INLET POSITION EJECTOR INLET LOCATION LOCATION 1.2 STATIC PRESSURE RATIO, PIZPO 1.1 1.8 8.9 **9.8** LOCAL TO AMBIENT 8.7 8.6 8.5 L 1.2 1.4 Ø.4 8.6 Ø.8 1.8

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42 PLUG AND SPLITTER STATIC PRESSURE DISTRIBUTIONS AT SUBSONIC CRUISE Mo =Ø.Ø3 Ptr/Po= 3.554 Ptr/Ptp=1.96 INLET POSITION SHROUD REMOVED EJECTOR A FLOW SPLITTER 0.0. 8.9 Ø.8 LOGAL STATIC TO FAN TOTAL PRESSURE, PIZPIT Ø.7 8.6 Ø.5 Δ 8.4 Ø.3 ø.2 Ø.1 8.g 8.2 ø.8 1.2 8.6 PRESSURE TAP AXIAL LOCATION: x/dmax

RDG=2815 A2 EJECTOR INLET AND SHROUD STATIC PRESSURE DISTRIBUTION Mo =Ø.Ø3 Ptr/Po= 3.554 Ptr/Ptp=1.96 AT SUBSONIC CRUISE SHROUD REMOVED

D FOREBODY

A 28 SHROUD

SHROUD EJECTOR NLET POSITION INLET LOCATION LOCATION 1.2 P1/Po 1.1 RATIO 1.8 LOCAL TO AMBIENT STATIC PRESSURE 8.9 Ø.8 Ø.7 Ø.6 Ø.5 L 1.4 Ø.4 8.6 Ø.8 1.8 1.2

RUN 63

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A L	~ 1											
LUCAL	a a											
	g.g	. 2 ø	. 4	Ø	• 6	Ø	. 8	1	.ø	1	•2	1.

	_ 2 LUG	AND	SPLITTE	R STATI	C PR	ESSUR	E DIS	STRI	BUTIO	NS AT	SUB		RDG=28 CRUI	
М	o =Ø	. 84 1.8	P+r/ EJECTOR		4.54 POS	9 TION			=1.96 REMOV	ED.		1		
		ø.9						-	Δ	FLOW	SPL	TTER	0.0.	
		ø.8						2- د مسلس						
	P1/P1r	ؕ7			<u> </u>									
	PRESSURE, P	Ø.6			•	Δ		<u></u>						
		Ø.5				Δ		****						
	TOTAL	ؕ4									<u>-</u>			
	TO FAN	ø.3			······································			<u></u>	***************************************		· · · · · · · · · · · · · · · · · · ·			
		ø.2									- 148 A			
	LOCAL STATIC	Ø.1												
	T 00	Ø.8 Ø	-2	2. 4	Ø	• 6	ø.	8	1	.8	1	•2	1.	4
i														

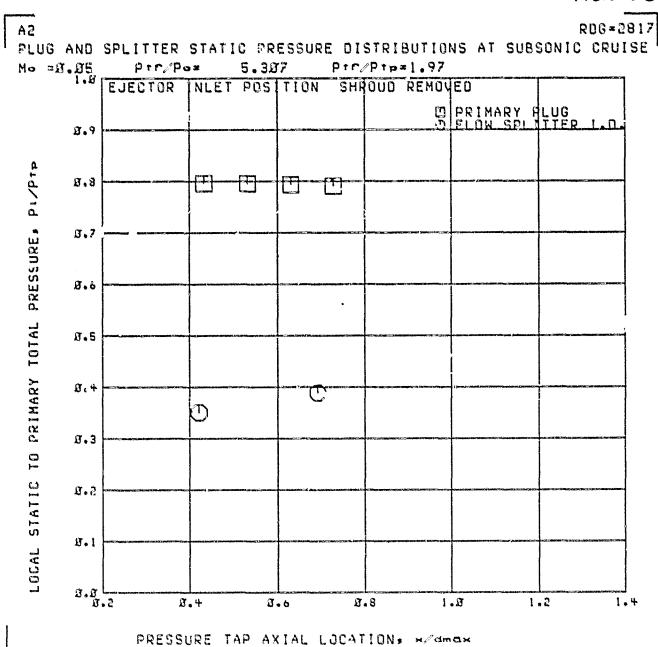
RDG=2816 42 EJECTOR INLET AND SHROUD STATIC PRESSURE DISTRIBUTION Mo =Ø.Ø4 1.3 Ptr/Po= 4.549 Ptr/Ptp=1.96 AT SUBSONIC CRUISE SHROUD REMOVED

D FOREBODY INLET

A 28 SHROUD LOCATION

BB SHROUD LOCATION EJECTOR NLET POSITION 1.2 RATIO, PLZPO 1.1 1.8 STATIC PRESSURE Ø.9 Ø.8 LUCAL TO AMBIENT 8.7 Ø.6 8.5 L Ø.8 1.2 Ø.4 Ø.6 1.0

RUN 63



FUN 63

A 2 PLUG AND SPLITTER STATIC PRESSURE DISTRIBUTIONS AT SUBSONIC CRUISE Ptr/Ptp=1.97 Me = 3.95 5.307 PtroPo= EJECTOR INLET POSITION SHROUD REMOVED A FLOW SPLITTER O.D. 3.9 8.8 PRESSURE, PI/PIF 9.7 Ø . 6 Δ ø.5 Z LOCAL STATIC TO FAN TOTAL **3.** 4 ø.3 8.2 0.1 Δ a.a [3.4 3. b 8.8 1.0 1.2 1.4 PRESSURE TAP AXIAL LOCATION. * damax

RUN 63

RDG=2817 45 EJECTOR INLET AND SHROUD STATIC PRESSURE DISTRIBUTION Mo =8.85 5.307 Ptp=1.97 Ptr/Po= $\boldsymbol{p}_{(e_1, \cdots, e_n)}$ AT SUBSONIC CRUISE D REMOVED
D FOREBODY
A 28 SHROUD
& 88 SHROUD INLET POSITION EJECTOR INLET LOCATION LOCATION 1.2 LOCAL TO AMBIENT STATIC PRESSURE RATIO, PIZPO 1.1 1.8 g.9 B.8 II.7 8.6 n.5 L.. 8.4 8.6 8.8 1.8 1.2 1.4

RUN 63

	AND 8.85	SPLITTE:	Pos	6.85	6	P+r/F	tp=	1.96		r sub	SONIC	CRUI
	1 0 11	EJECTOR	NLET	POSI	TION	SHRO	UO F	REMOV	ED			
	Ø.9							<u>O</u>	PRIM FLOW	ARY SPL	LUG	LO
P1/PTP	8.8											
	Ø.7											
PRESSURE,	Ø.6					1	- 			·		
TOTAL	ؕ5	,										
PRIMARY	8.4		0									
TO PRI	ø.3											
STATIC	8. 5									**************************************		
	8. 1	,										
LOCAL	8.8 8	•5	8.4		. 6	8.8		1	. ø	1	, 2	1.

RUN 63

RDG=2818 42 PLUG AND SPLITTER STATIC PRESSURE DISTRIBUTIONS AT SUBSONIC CRUISE Mo =0.05 Ptr/Po= Ptr/Ptp=1.96 6.856 INLET POSITION SHROUD REMOVED A FLOW SPLITTER O.D. 8.9 Ø.8 PRESSURE, PIZPIF 8.7 8.6 Ø.5 $\triangle \Delta$ LOCAL STATIC TO FAN TOTAL 8.4 Ø.3 ø.2 8.1 8.8 Ø. 4 8.6 Ø.8 1.8 1.2 * ~ 1.4 PRESSURE TAP AXIAL LOCATION, x/dmax



RDG=2818 45 EJECTOR INLET AND SHROUD STATIC PRESSURE DISTRIBUTION AT SUBSONIC CRUISE Ptr/Po= Ptr/Ptp=1.96 6.856 SHROUD REMOVED

D FOREBODY

A 28 SHROUD

B SHROUD EJECTOR NLET POSITION INLET LOCATION LOCATION 1.2 1.ì TO AMBIENT STATIC PRESSURE RATIO. **企** 1.8 8.9 8.8 8.7 8.6 LOCAL 8.5 F 1.2 1.4 8.4 8.6 8.8 1.8

RUN 63

											900-20	
A2 PLU	G AND	SPLITTER	STATI	C PR	ESSL	IRE DI	STRIBU	TIO	NS AT SU		CRUI	
	=Ø.Ø5 1.ø	Ptr/Pe		6.36			/Ptp=1					
	1 . 10	EJECTOR	NLET	POS	TIO	N SH	000 26	MOV	ED			
								9	PRIMARY	FLUG	1.0	
	ؕ9			***************************************								
Φ.	ؕ8											
P1/P1P	n • 8											
	Ø.7											
PRESSURE.	2.7											
188	8.6							, <u></u>				
PRE	2.0											
	ø.5					**************************************						
TOTAL	200											
	ؕ4							·				
MAR			6									
PRIMARY	Ø.3				(<u>D</u>		·				
10												
	ø.2		<u> </u>		<u> </u>							
AT												
LOCAL STATIC	8.1		ļ		<u> </u>							
CAL												
L0	ø.ø 8		<u> </u>		<u> </u>				<u> </u>	<u></u>		
	Ø	.2 8	. 4	Ø	• 6	Ø	. 8	1	•₿	1.2	1 •	4
		PRESS	URE T	AP A	KIAL	LOCAT	ION, >	·/d=	a×			

RUN 63

	7.25 1.8	Pı	r/P	5 =	6.36		Ptr	Ptp:	=1.96				
	1 +2	EJEC	TOR	NLET	POS	TION	SHR	000	REMO	ED			
	Ø.9								Δ	FLOW	SPL	TTER	0.0
	8.8												
PKESSUKE: FIZFIF	ؕ7	- A - Market - A											······································
SUKE .	ø.6										<u></u>		
	ø.5					ΔΔ					···		
101AL	Ø.4				.								
200	ø.3		 										
	a. 5							<u>,</u>					
LUCAL SIMIIC	Ø.1				Δ								
	g.g g.												

RDG=2819 42 EJECTOR INLET AND SHROUD STATIC PRESSURE DISTRIBUTION Ptr/Po= 6.364 Ptr/Ptp=1.96 AT SUBSONIC CRUISE NLET POS TION SHROUD REMOVED

D FOREBODY

A 28 SHROUD

SE SHROUD EJECTOR INLET LOCATION LOCATION 1.2 LOCAL TO AMBIENT STATIC PRESSURE RATIO, PIZPO 1.1 1.8 **松松** Ø.9 Ø.8 8.7 Ø.6 Ø.5 L 1.4 Ø.4 Ø.5 Ø.8 1.2